CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 5, 1905.

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PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Dec.	Work.	Place.	On file.	See Issue.
Jan. *5	Water-works	Washington, Ga.	S.	12-15
28	Latrines	Washington, D. C.	S.	1- 5
29	Switchboard	Washington, D. C.	S.	1- 5
Feb. 4	Shears	Washington, D. C.	S.	1- 5

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	See issue.
	LIGHT, HEAT AND POWER PLANTS.		
Jan. 9	Power-house	Taunton, Mass.	Jan. 5
Jan. 9	Electric plant	Anadarco, Okla.	Jan. 5
	BRIDGES.		
Jan. 5	Bridge	Redding, Cal.	Dec. 1
Jan. 5	Bridges	Phoenix, Ariz.	Dec. 1
Jan. 6	Bridge, steel	Castlewood, S. Dak.	Dec. 15
Jan. 6	Bridge, steel	Dayton, O.	Dec. 15
	Advertised, Eng. News, Dec. 15 and 22.		
Jan. 9	Bridge	Topeka, Kan.	Dec. 22
Jan. 9	Bridges, steel	Belair, Md.	Dec. 29
Jan. 10	Bridge	Harrisburg, Pa.	Dec. 29
Jan. 10	Bridges	Wayne, Neb.	Dec. 22
Jan. 11	Bridge, Springfield	Mass.	Dec. 22
	Advertised, Eng. News, Dec. 22 and 29.		
Jan. 11	Bridge, steel, Billings	Mont.	Dec. 1
	Advertised, Eng. News, Dec. 1 to 29.		
Jan. 12	Bridge, Hoopeston	Ill.	Jan. 5
	BUILDINGS.		
Jan. 5	Structural work	Des Moines, Ia.	Dec. 22
Jan. 5	Jail plans	New Albany, Miss.	Dec. 22
Jan. 5	Post office	Ogden, Utah	Dec. 8
Jan. 5	Hospital	Lawrence, Kan.	Dec. 15
Jan. 5	Steel beams, etc.,	Washington, D. C.	Dec. 15
	Advertised, Eng. News, Dec. 15 and 22.		
Jan. 6	Painting post office	Springfield, Ill.	Dec. 15
	Advertised, Eng. News, Dec. 15 and 22.		
Jan. 6	School work	Chicago, Ill.	Jan. 5
Jan. 7	Elevator, etc.,	Jacksonville, Fla.	Dec. 22
Jan. 9	State buildings	Columbus, O.	Dec. 22
Jan. 9	Post office	Henderson, Ky.	Dec. 8
Jan. 10	Post office	Newcastle, Pa.	Dec. 1
	Advertised, Eng. News, Dec. 1 and 8.		
Jan. 10	Office building	Wheeling, W. Va.	Dec. 29
Jan. 10	Greenhouses, etc.,	National Military Home, O.	Jan. 5
Jan. 12	Stable	Brooklyn, N. Y.	Jan. 5
Jan. 18	Heating apparatus	Yankton, S. Dak.	Dec. 22
	Advertised, Eng. News, Dec. 22 and 29.		
Jan. 19	Post buildings	Ft. Meade, S. Dak.	Jan. 5
	Advertised, Eng. News, Jan. 5 and 12.		
Jan. 28	Light fixtures	Cheyenne, Wyo.	Dec. 29
	Advertised, Eng. News, Dec. 29 to Jan. 19.		
Jan. 30	Post office	DeKalb, Ill.	Jan. 5
	Advertised, Eng. News, Jan. 5.		
Jan. 31	Post office	Albert Lea, Minn.	Dec. 8
	Advertised, Eng. News, Dec. 8 and 15.		
Feb. 7	Post office	Nevada, Mo.	Dec. 29
	Advertised, Eng. News, Dec. 29 and Jan. 5.		
	WATER SUPPLY AND IRRIGATION.		
Jan. 5	Water supply improvement	Wash., Ga.	Dec. 15
	Advertised, Eng. News, Dec. 15 and 22.		
Jan. 6	Water mains	New York, N. Y.	Dec. 29
Jan. 9	Water and sewer plans	Hastings, Minn.	Dec. 29
Jan. 9	Outlet tunnel	Casper, Wyo.	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 5.		
Jan. 10	Pipe, etc.,	Washington, D. C.	Dec. 1
Jan. 11	Pipe, etc.,	New York, N. Y.	Jan. 5
Jan. 12	Water-works	Newcastle, Neb.	Dec. 29
Jan. 14	Pumping engine	Kansas City, Mo.	Dec. 15
	Advertised, Eng. News, Dec. 15 and 22.		
Jan. 24	Artesian well	Dallas, Tex.	Jan. 5
	Advertised, Eng. News, Jan. 5 and 12.		
Jan. 25	Water-works	Deadwood, S. Dak.	Dec. 15
	Advertised, Eng. News, Dec. 15.		
Feb. 10	Water system	Bishop, Cal.	Dec. 15
	Advertised, Eng. News, Dec. 8 to 29.		
	SEWERAGE.		
Jan. 7	Drain repairs	Sarnia, Ont.	Jan. 5
Jan. 9	Sewer	Lebanon, Ind.	Dec. 29
Jan. 10	Sewer	San Pedro, Cal.	Jan. 5
Jan. 10	Sewer system plans	Marion, S. C.	Jan. 5
Jan. 11	Sewer	Houston, Tex.	Jan. 5
Jan. 11	Sewers	New York, N. Y.	Jan. 5
Jan. 15	Sewerage	Louisburg, N. C.	Dec. 29
	Advertised, Eng. News, Dec. 29 and Jan. 5.		
Jan. 15	Sewers and water-works	Louisburg, N. C.	Dec. 29
	Advertised, Eng. News, Dec. 29 and Jan. 5.		
Jan. 16	Sewers	Momence, Ill.	Jan. 5
	Advertised, Eng. News, Jan. 5.		
Jan. 26	Sewers	Coldwater, Mich.	Jan. 5
	Advertised, Eng. News, Jan. 5 and 12.		
Jan. 31	Sewers, water pipe, etc.,	New Orleans, La.	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 19.		
Feb. 10	Sewer system	Bishop, Cal.	Dec. 15
	Advertised, Eng. News, Dec. 8 to 22.		
	STREETS AND ROADS.		
Jan. 5	Paving	Santa Barbara, Cal.	Dec. 29
Jan. 7	Road, gravel	Lebanon, Ind.	Dec. 22
Jan. 7	Macadamizing	Norwood, O.	Dec. 22
Jan. 9	Roads	Newark, N. J.	Jan. 5
Jan. 10	Sidewalks	Jeffersonville, Ind.	Jan. 5
Jan. 11	Paving	Glenville, O.	Dec. 22
Jan. 12	Road, gravel	Bloomfield, Ind.	Jan. 5
Jan. 16	Paving, etc.,	Atlantic City, N. J.	Jan. 5
	Advertised, Eng. News, Jan. 5.		
Jan. 21	Macadamizing	Sussex, N. J.	Jan. 5
	Advertised, Eng. News, Jan. 5 to 26.		
	MISCELLANEOUS CONTRACTS.		
Jan. 5	Garbage crematory	Ft. S. Houston, Tex.	Dec. 8
Jan. 5	Fuel oil, etc.,	Phoenix, Ariz.	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 4.		
Jan. 6	Garbage cans, shovels, etc.,	Wash., D. C.	Dec. 15
Jan. 6	Box lockers	San Francisco, Cal.	Dec. 22
Jan. 7	Elevator and lift	Washington, D. C.	Dec. 22
Jan. 7	Timber	Washington, D. C.	Dec. 15
Jan. 7	Drain	Sarina, Ont.	Dec. 8
Jan. 9	Dredging	Norfolk, Va.	Dec. 22
	Advertised, Eng. News, Dec. 22 and Jan. 5.		
Jan. 9	Laundry plant	Los Angeles, Cal.	Dec. 22
Jan. 9	Steel shed	Stockton, Cal.	Dec. 29
Jan. 10	Boiler, etc.,	Spring Lake, N. J.	Dec. 29
	Advertised, Eng. News, Dec. 29 and Jan. 5.		
Jan. 10	Motors, cement, shears, etc.,	Wash., D.C.	Dec. 29
Jan. 10	Shells & sand	Nat'l Soldiers' Home, Va.	Dec. 29
Jan. 10	Portland cement	Roswell, N. Mex.	Dec. 22
	Advertised, Eng. News, Dec. 22 to Jan. 12.		
Jan. 11	Lamp-posts, cross-heads, etc.,	New York, N. Y.	Jan. 5
Jan. 11	Boilers, etc.,	New York, N. Y.	Jan. 5
Jan. 12	Anchors	Tompkinsville, N. Y.	Jan. 5
Jan. 12	Armor	Washington, D. C.	Jan. 5
Jan. 16	Dynamite, explosives	Wash., D. C.	Dec. 15
	Advertised, Eng. News, Dec. 15 to Jan. 18.		
Jan. 18	Locomotive equipment	Washington, D. C.	Jan. 5
	Advertised, Eng. News, Jan. 5 and 12.		
Jan. 31	Stone	Portland, Ore.	Jan. 5
	Advertised, Eng. News, Jan. 5 to Feb. 2.		
Feb. 3	Dredging	Savannah, Ga.	Jan. 5
	Advertised, Eng. News, Jan. 5 to Feb. 2.		
Feb. 8	Dam and bridges	Phoenix, Ariz.	Dec. 1
	Advertised, Eng. News, Dec. 1 to Feb. 5.		
Feb. 15	Dredging	Chicago, Ill.	Dec. 15
	Advertised, Eng. News, Dec. 15.		
Mar. 31	Electric railway	China	Oct. 20
	Advertised, Eng. News, Oct. 20 to Dec. 29.		
No date	Stone crushing	Albany, N. Y.	Jan. 5
	Advertised, Eng. News, Jan. 5.		

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARIZONA & CALIFORNIA.—A report from Prescott, Ariz., states that contract for grading 40 miles additional of the Arizona & California Railroad has been awarded to GRANT BROS. CONSTRUCTION CO. Preparations are being made for a railroad bridge across the Colorado River at Parker. The bridge approaches are being graded.

ATCHISON, TOPEKA & SANTA FE.—The LANTRY-SHARP CONTRACTING CO., of Kansas City, Mo., has been awarded contract for change of line of Santa Fe Coast Line through Truxton Canyon, in Arizona. The total contract for grading and masonry, we are informed, amounts to about $200,000. This change of line is made necessary by wash-outs and floods of last season.

BATAVIA & NORTHERN.—Richard Schermerhorn, Gen. Mgr. and Ch. Engr., 183 Prospect Pl., Brooklyn, N. Y., states that it is expected to build this road next year from Batavia, N. Y., to Oak Harbor, on Lake Ontario, 28 miles; also from Batavia to Attica, 11 miles.

BAY MINETTE & FORT MORGAN.—Grading on the line from Bay Minette, Ala., to Foley, Ala., 36½ miles, is said to be about 70 per cent. completed. Track-laying will begin this month, according to Chief Engineer W. W. Olney, Bay Minette.

CHESAPEAKE & OHIO.—The following is an official statement of the new lines completed during 1904: From Big Creek to Logan, W. Va., 15 miles; from Raleigh, W. Va., to end of track, 10.6 miles; from Piney Creek, W. Va., to end of track, .8 mile; from Thurmond, W. Va., to mines, 4.1 miles; from Durbin to Bartow, W. Va., 2.2 miles; from Whitehouse to Prestonburg, Ky., 26 miles; a total of 58.7 miles. C. E. Doyle is Gen. Mgr., and F. I. Cabell, Engr. of construction, at Richmond, Va. F. W. Scarborough is Ch. Engr.

CHICAGO & ALTON.—It is reported that the Chicago & Alton Railway will cut down grades on its line between Mexico, Mo., and Kansas City. G. H. Kimball is Ch. Engr., at Chicago, Ill.

CHICAGO, ANAMOSA & NORTHERN.—Line will be built from Coggan, Ia., to Waterloo, 70 miles. J. F. Lacock, Anamosa, Ia., Ch. Engr., reports that the road has been completed from Anamosa to Coggan, about 20 miles.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

CHICAGO, ROCK ISLAND & PACIFIC.—This company is said to be preparing to build an extension from Knoxville, the present terminus of the Washington division, to Indianola, Ia., 28 miles. Surveys have been finished and estimates of the probable cost have been made. It is stated also that a spur line will be built from Knoxville to coal regions in Marion County, Ia. W. H. Darling, Chicago, is Ch. Engr.

DENVER, NORTHWESTERN & PACIFIC.—H. A. Sumner, Ch. Engr., Denver, reports that this road has been extended during the past year from Coal Creek to Arrowhead, Colo., 59 miles. Grading is in progress from Arrowhead to Hot Sulphur Springs, 33 miles. The road probably will be built from Hot Sulphur Springs on to Provo, Utah, 394 miles.

DES MOINES, IOWA FALLS & NORTHERN.—Preliminary surveys have been made for an extension from Iowa Falls, north 50 miles, according to reported announcement of President E. S. Ellsworth, Iowa Falls, Ia. Tracklaying may begin in the spring.

DONALDSON & NAPOLEONVILLE.—Preliminary surveys have been run for extending this line from Johnson, La., to Houma, La., 40 miles; also from Thibodaux, La., to Gibson, 16 miles. Contracts may be let soon. M. D. Bringier, Donaldsonville, La., is Gen. Mgr.

EL PASO & SOUTHWESTERN.—J. L. Campbell, Engr., Durango, Colo., is said to have completed survey of difficult portion of line for the Durango extension of this road. H. J. Simmons, El Paso, Tex., is Gen. Supt.; F. B. Wilson, Asst. Engr.

FLORIDA EAST COAST.—An extension, about 135 miles in length, will be built from the terminus at Miami, Fla., to Key West. For at least one-fifth of the way it will be practically a roadbed through the ocean. Key Largo and Long Island will provide a long stretch of dry track. From Key West freight trains will be transported to Havana, Cuba, 85 miles, on special boats. Starting from Miami, the road will be extended along the shore of Biscayne Bay to the narrow neck of land almost joining Key Largo, which is 25 miles long, to the mainland. This neck has Cards Sound on the north and Barnes Sound on the south. The road will run through the southern half of Key Largo to Captain's Key, crossing a narrow strip of water, and thence to Long Island, where a 3-mile channel will be crossed to reach Upper Metacumbe Key. From this island to Lower Metacumbe Key a 4-mile strip of water must be bridged, and a 5-mile strip to Long Key. Another 5-mile structure must be built to Crawl Keys and Grassy Keys, and one mile more must be bridged over quite deep water to Key Vaccas. There are nine miles of water between Vaccas and Bahia Honda. Thence a 3-mile structure is to be built to No Name Key, and short structures only are needed to bridge the narrow channels between a score of small clustering keys which extend to Key West. Surveying parties are in charge of J. C. Meredith, Engineer of Construction, with headquarters at Miami, Fla.

GULF & SHIP ISLAND.—J. E. CHISOLM and H. C. TURNAGE have secured the grading contract for 11-mile extension from Columbia, Miss., to Silver Creek, Miss. W. W. Vail, Gulfport, Miss., is Ch. Engr.

INTERSTATE RY.—A press report from Sergent, Ky., states that this road is to be extended from Appalachia, Va., via Kelley View to Norton, Va., 12 miles, penetrating a section rich in coal and minerals. Work will be commenced at once. A. H. Reeder, Stonega, Va., is Gen. Mgr.

ILLINOIS, IOWA & MINNESOTA.—This line has been completed between De Kalb and Aurora, Ill. Contract for grading line between Kirkland and Rockford was let to GEORGE M. KEPNER. Work of construction is now in progress between De Kalb and Kirkland. The contract calls for about 25 miles. I. W. Troxel, Aurora, is Ch. Engr.

KENTUCKY.—T. J. Asher & Son will build a narrow gage railroad from Wasioto, Ky., on the Louisville & Nashville Ry., to near Harlan Court House. The length of the road will be 10 miles.

KANSAS CITY, TULSA & SOUTHWESTERN.—W. H. Hendron, Ch. Engr., Tulsa, Ind. T., reports that the survey is completed from Tulsa to Chetopa, Kan. This company was incorporated in November, with $2,000,000 capital. It is proposed to build from Talala, Ind. T., to Wichita Falls, Tex., 250 miles. When incorporated it was announced that southwest of Tulsa the route is via Mounds, Ind. T., and Shawnee, Okla. A branch is to be built to Oklahoma City, and eventually it is proposed to extend the main line from Talala north to Chetopa, Kan., and from Wichita Falls south to Cisco, Tex. The officers are: Jay Forsythe, Pres.; C. W. Brown, Vice-Pres.; W. H. Hendren, Gen. Mgr. and Ch. Engr.; C. B. Lynch, Secy.; E. C. Reynolds, Treas. Walker & Talley are General Counsel. Headquarters, Tulsa, Ind. T. The proposed line will cross the St. Louis, Iron Mountain & Southern at Talala, passing through Collinsville on the Bartlesville branch of the Atchison, Topeka & Santa Fe, and through Tulsa, on the Arkansas River, in the Creek nation. At this point the road will cross the Oklahoma division of the Missouri, Kansas & Texas Ry., the Midland Valley railroad and the Oklahoma division of the Frisco system. Continuing in the same general southwesterly direction, the line will cross the Texas division of the Frisco Ry. system at Mounds, Ind. T., and thence it passes on through the Creek and Seminole nations to Shawnee, Okla. From Shawnee the road runs through the Chickasaw nation to Red River, thence to Wichita Falls, Tex. It is reported that bridges will be required as follows: A 220-ft. span over Verdigris River; a 120-ft. girder over Caney River, and a 120-ft. girder over Bird Creek.

MABOU & GULF.—Work of construction will commence early next spring, according to Halifax, N. S., press reports. Line will run from coal mines at Mabou, N. S., to Orangedale, on the Intercolonial Ry., about 40 miles. Col. Boardman Cann, of Boston, Mass., is Pres. and Gen. Mgr. of the Co.

MISSISSIPPI, ARKANSAS & WESTERN.—A. F. Cook, Little Rock, Ark., Secy., states that it is proposed to build an extension from Big Bayou, Ark., to Gains Landing, Ark., eight miles. Howard Coles, at Blissville, Ark., is Supt. and Ch. Engr.

MISSOURI PACIFIC.—Partial survey has been made, we are informed, for branch line that will run into Springfield, Mo., from Missouri Pacific division line. Right-of-way has been obtained.

NEW YORK, PENNSYLVANIA & SOUTHWESTERN.—M'GOWAN & COON, of Wilkesbarre, Pa., have been awarded contract for section of this line at Wyalusing,

6 miles south of Susquehanna River. ALLEN, DONNELLY & CO., with headquarters at Wyalusing, Pa., have the contract for a 15-mile section near that city. Particulars noted in issue of Nov. 24, under former name, Binghamton & Southwestern.

OTTAWA & NEW YORK.—This road, extending from Ottawa, Ont., to Tupper Lake, N. Y., has been sold to a committee of bondholders, most of whom are reported to be New York Central Board members.

MISSOURI RIVER & NORTHWESTERN.—Francis C. Tucker, Ch. Engr., Rapid City, S. Dak., writes us that this road will be 35 miles long, running from Rapid City to Mystic, S. Dak., via Silver City and Pastola. C. D. Cronan, Rapid City, is Pres. All surveys have been made and right-of-way obtained. Capital has been secured. Bids are being received now. Grading contracts will be let as rapidly as possible. Rock work will be done this winter and construction begun in spring. Eight miles of the line were graded some years ago.

PORTAGE ROAD.—NELSON & WHITE, of Seattle, Wash., have contract for nine miles of this road, at $115,523. This is exclusive of rails and rolling stock. Total contract amounts to $170,000. The Open River Association will secure necessary funds above $151,000, now in State treasury, available for construction of this road. A. McL. Hawks, Berlin Bldg., Tacoma, Wash., is Consult. Engr. The road will extend from Celilo to Big Eddy via The Dalles, Ore.

PRESCOTT & NORTHWESTERN.—Announcement is made that a 10-mile extension will be built from Elberta, Ark., to Nathon. H. E. Bemis, Prescott, Ark., is Mgr.

TEXAS SOUTHWESTERN.—P. A. McCarthy & Son, Lufkin, Tex, are reported to be receiving bids for building 8.6 miles of an extension of the Texas Southeastern Ry. between Diboll, Tex., and the Neches River. W. J. Raef, Diboll, Tex., is Gen. Mgr.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

NEW BEDFORD, MASS.—The Aldermen have granted a franchise to Union Street Ry. Co. for double tracks in Union St., from Seventh St. to Rockdale Ave., and in Rockdale Ave., from Union St. to Kempton St. A. S. Paine, City, is Ch. Engr.

HARTFORD, CONN.—The Hartford Street Ry. Co. has been petitioned to extend its lines from the present terminus at Mount St. Benedict Cemetery, about 2½ miles into the center of the town of Bloomfield. F. Caum is Ch. Engr.

ROCKVILLE, CONN.—It is said that the contract for construction of Rockville, Broad Brook & East Windsor Street Railway, which it is proposed to run from this city through Ellington and Broad Brook to connect with the Hartford & Springfield Street Railway beyond that village, has been taken by THOMAS C. PERKINS, of Hartford.

SYRACUSE, N. Y.—Trustees of East Syracuse have granted a franchise to East Side Traction Co., of Syracuse, now owned by Rapid Transit Co., to build an electric railway from the present terminus of company's line to village line in East Syracuse. W. P. Gannon, City, is Pres.

NEW YORK, N. Y.—The Appellate Division, First Department, granted application of New York City Interborough R. R. Co. for railroad franchise in Borough of Bronx.

NEWARK, N. J.—Harrison Town Council passed an ordinance granting to North Jersey Street Ry. Co. a franchise to build a trolley line on Fourth St. from Central Ave. to Jackson St. bridge. The company will be obliged to lay a concrete foundation under present pavement between tracks and one foot on each side. Thos. N. Carter, City, is Pres.

DANBORO, PA.—It is semi-officially announced that the construction of a trolley road from Danboro to Point Pleasant will soon be started, as will also the branch from Tohickon Park to Bedminsterville. It is reported that work will begin on both branches this spring. They will be built and operated by Philadelphia & Easton Street Ry. Co. L. P. Muthart is Mgr., Allentown.

GREENVILLE, PA.—We are informed that the Shenango Traction Co. will start construction work in the early spring. The line runs through Shenango Valley iron and steel manufacturing district and connects New Castle and Meadville with the intermediate towns in this valley. The line will be 60 miles long. Est. cost, $1,500,000. C. G. Hussey, of Pittsburg, is Pres. W. H. Waugh, Greenville, is Ch. Engr.

POTTSVILLE, PA.—The Pottsville Union Traction Co. has decided to begin at once the construction of an extension 8½ miles long from St. Clair to Frackville. D. J. Duncan is Supt.

HARRISBURG, PA.—A charter has been granted to Dravosburg & Jefferson Street Ry. Co. to build 1 1-3 miles of line on the road leading from Dravosburg to West Elizabeth. Capital stock, $8,000. J. E. White, of Dravosburg, is Pres.

PITTSBURG, PA.—Westinghouse companies have received contracts aggregating about $500,000 for complete equipment of Rochester, Syracuse & Eastern Railroad to be built by Syracuse Construction Co. The new line is a trolley road 80 miles long. The power will be generated by steam turbines. The contracts are divided between the WESTINGHOUSE ELECTRIC & MFG. CO. and WESTINGHOUSE MACHINE CO. The latter will build two 2,000-HP. steam turbines, and the former two 2,000-HP. generators.

CLARKSBURG, W. VA.—The Clarksburg & Western Traction Co., capital, $25,000, has been chartered. Incorporators: Humphrey Bropard, Flemington, W. Va.; Sylvester G. Monroe, Lost Creek, W. Va.; Frank B. Haymaker, Chas. C. Lithe, Wyckliff M. Conoway, Clarksburg.

HIGH POINT, N. C.—An electric railway will probably be built from this city to Winston-Salem. W. H. Ragan, W. J. Wrenn and R. H. Wheeler are among the promoters.

TAMPA FLA.—A street railway will be constructed over main streets of this city to Ybor City and Sulphur Springs. Promoters: T. W. Smith, C. E. Ball, W. B. Gray and Geo. C. Warren.

YAZOO CITY, MISS.—Board of Mayor and Aldermen has instructed Clerk to advertise for bids for putting an electric railway in operation. It may be that outside capital will be permitted to construct road and operate it as a private enterprise.

CHATTANOOGA, TENN.—Application will be made at once for a charter for Tennessee-Georgia Interurban R. R. Co., capital $300,000, to construct and operate an electric railway between Chattanooga and Ducktown, Tenn., via Ringgold, Catoosa and other nearby Georgia points. Incorporators: S. W. Devine, of Chattanooga; J. H. Walker, Jr., J. C. Bryan, J. R. Jones, W. E. Biggen, J. M. Robinson, W. E. Bryan and J. W. Clark, of Catoosa County, Georgia. Funds for preliminary survey of route have been subscribed and work will be begun at once.

INDIANAPOLIS, IND.—A company is organizing in Indianapolis for the construction of an electric railway south from Terre Haute. Dr. W. N. Heath, City, is Secy. The proposed line is to be built from Terre Haute to Vincennes.

BATTLE CREEK, MICH.—The Grand Rapids, Battle Creek & Inland Lakes Traction Co. has filed its acceptance of franchise offered by City Council.

EDWARDSVILLE, ILL.—Half the right of way has been secured for proposed electric railway from Mitchell to Edwardsville. The project is being promoted by Frederick E. Allen, of 4319 Washington Boulevard, St. Louis, Mo.

SPRINGFIELD, ILL.—The Springfield & Northeastern R. R. Co. expects to build 111 miles of interurban road the coming season, according to L. E. Myers, of Chicago, Pres. L. E. Myers Co., which has the contract. The main line will extend from Springfield to Bloomington, with a branch from Lincoln to Peoria.

LITCHFIELD, ILL.—City Council granted St. Louis & Springfield Traction Co. a franchise to build and maintain an electric railway on certain streets of Litchfield. Company will also build a line between Staunton and Litchfield and Hillsboro and Litchfield. Survey is being made.

KENOSHA, WIS.—The Park City Electric Ry. Co. has incorporated with $25,000 capital stock. Incorporators: John M. Kehlor, Chester D. Barnes and Levi C. Graves. Company intends building an electric line from this city to Lake Geneva, and also a local line.

ALTON, MO.—Two companies will probably petition City Council at January meeting for franchises to build electric lines on Belle St.

FORT SMITH, ARK.—J. C. Cummins, attorney for Byllesby Electric Co. of Chicago, which floated bonds of Electric Street Railway here, and J. J. O'Brien, auditor of company, are in the city for the purpose of making extensive improvements for the erection of a new power house and for oil development contemplated. The improvements are to begin right after the first of the year, and $180,000 is to be expended during the year.

LA GRANGE, TEX.—G. A. Heilig and J. F. Wolters, representing St. Louis capitalists, have submitted propositions to build an electric railway from La Grange to Brenham.

SAN MARCOS, TEX.—The project of building an interurban electric railway between San Marcos and Luling, Tex., has been taken hold of by local and outside capitalists, and it is stated that its early construction is assured. Its route will be through Martindale, Staples, Prairie Lea and other places, a distance of 14 miles. Judge B. G. Neighbors is interested.

PORT ARTHUR, TEX.—Port Arthur Electric Street Ry. Co. has completed survey for proposed extension of its line to deep-water docks, a distance of about two miles, and thence to oil refinery and to West Port Arthur.

CORPUS CHRISTI, TEX.—H. F. McGregor, Mgr. Houston Electric Co. and John Tod, of Houston, have been investigating the situation here with the view of constructing an electric street railway system. They are said to represent a syndicate of Eastern capitalists who will undertake the work if report is favorable.

SOUTH McALESTER, IND. T.—The Indian Territory Traction Co. has been granted a franchise to extend its line in this city. M. M. Lindly, City, is Secy.

SAN DIEGO, CAL.—City Clerk will advertise the sale of franchise for an electric street railroad to Old Town as petitioned for by the San Diego Street Ry. Co.

COEUR D'ALENE, IDAHO.—F. A. Blackwell, Pres. Coeur d'Alene & Spokane Ry. Co., and Jay P. Graves, of Spokane Traction Co., have incorporated the Spokane & Interurban Co. for the purpose of building an electric line from Spokane to Moscow and ultimately to Lewiston and the Snake River.

THREE RIVERS, QUE.—An electric railway is projected to run westerly from this place to Ste. Anne de la Perade through St. Murice, Maskinonge and Champlain.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The Bodwell Water Power Co. has given notice of intention to apply to legislature for authority to sell its property or to issue $1,000,000 of bonds for general improvement purchases. W. P. Hubbard, Secy.

FRANKLIN, N. H.—It is stated that Allen A. Tirrell, of Schenectady, N. Y., is interested in plan to build an electric power station at this place, on the Pemigewassett River. Power probably would be supplied to Laconia, N. H., and other cities.

TAUNTON, MASS.—Bids are asked until Jan. 9, noon, for building power house and for addition to boiler room at Taunton Insane Hospital. John Kittredge, Treas. Hollis, French & Allen Hubbard, Engrs., 89 Beacon St., Boston, will receive bids.

BOLIVAR, N. Y.—The Genesee Gas Co. has been granted a franchise to lay pipes for 10 miles from Little Genesee. F. H. Raymond, Ceres, N. Y., is Secy. of the company.

ROCHESTER, N. Y.—The Rossman Electric Co. has been incorporated, with $40,000 capital. Grant B. Rossman, of New York, and Frank A. Ward and Frank Hawley Ward, of this city, are the incorporators.

COHOES, N. Y.—Chas. H. Van Auken, Engr. Electric Light Wks., is reported to be preparing plans for increasing the capacity of the plant.

NEW YORK, N. Y.—The Brooklyn Edison Co. and the New York Edison Co. were the only bidders on Dec. 30 for furnishing, operating and maintaining electric lamps for the term of one year, from Jan. 1, 1905, to Dec. 31, 1905, for lighting the suspended span of the Williamsburg (New East River) Bridge, over the East River, between the Boroughs of Manhattan and Brooklyn, from the Brooklyn terminal to the middle of the bridge, and from the Manhattan terminal to the middle, respectively. Prices were $130 a lamp a year for the 2,000-c. p. arc lights, and $18 a lamp a year for incandescent lamps.

The Board of Estimate has appointed a commission to draw general plans and specifications, with estimates of cost, of a municipal electric light plant. The commissioners chosen are: Nelson P. Lewis, Chief Engineer of the Board of Estimate; Professor George G. Seaver, of Columbia University; and T. Carey Hutchinson. This action was taken upon receipt of concurring opinions, written by Corporation Counsel Delany and ex-Judge Dillon, that the city has power under the present charter to erect and operate an electric lighting plant for city use.

CATASAUQUA, PA.—New equipment and a new gas holder probably will be installed at gas plant of the Lehigh-Northampton Gas & Electric Co. here as W. W. McKee, receiver, is stated to have been authorized by the Lehigh County Court to issue $65,000 of bonds with which to modernize and increase the capacity of the plants of the company. A direct-connecting engine, a new generator and a new Stirling boiler will be installed [illegible] lines placed in first-class condition.

PITTSBURG, PA.—It is reported that the KEY[illegible] ENGINEERING CO., Farmers' Bank Bldg., [illegible] awarded the contract for wiring the Carnegie [illegible] $199,000. According to local press reports, the [illegible] includes 350 miles of insulated copper wire, 17[illegible] iron pipe for interior conduit and a main switch[illegible] ft. in length. When completed the building will [illegible] 30,000 incandescent lights.

NEWPORT, R. I.—Bids are asked until Jan. 2[illegible] Bureau Supplies and Accounts, Navy Dept., W[illegible] D. C., for installing an electric light system, etc., [illegible] Naval Training Station here.

MARION, S. C.—The commissioners of Public [illegible] will receive bids from civil engineers until Jan. [illegible] plans and specifications for a complete sewer sy[illegible] this town. References required. The right to re[illegible] and all bids is expressly reserved. Address all co[illegible] cations to P. B. Hamer, Clk.

KNOXVILLE, TENN.—A permit has been gr[illegible] Knoxville Traction Co. to build an addition to its [illegible] house, at cost of $20,000.

CAIRO, GA.—Election will be held on Jan. 25 [illegible] plan to issue $10,000 bonds for water-works, and $[illegible] for electric light plant.

DOUGLAS, GA.—Bonds have been sold and nego[illegible] are under way for erection of light and power plant [illegible] Joseph S. Walker, Pres. of the Electric Supply [illegible] of Savannah; H. F. Cameron, of the Westinghouse E[illegible] Co.; and C. J. O'Farrell are interested.

SAVANNAH, GA.—Thomas Gamble, Jr., Secy. to Mayor, writes us that this city does not contemplate the erection of an electric lighting or power plant, as reported. Herman Myers is Mayor.

YOUNGSTOWN, O. Council committee will report upon proposal to erect a municipal electric lighting plant. Osborne Engineering Co., Cleveland, O., is reported to have furnished estimates. Issuance of $100,000 of bonds for this purpose has been recommended by committee.

MIAMISBURG, O.—$19,000 of bonds will be issued for enlarging and improving the electric light plant. Charles F. Eck is Cy. Clk.

CLYDE, O.—It is reported that engineers W. J. Hayes, of Cleveland, and E. G. Lindsay, of Ravena, will prepare plans, etc., for remodeling the old gas works and electric light plant. If new franchise is secured company may enlarge gas holder, and also enlarge and improve the old gas house.

SAUGATUCK, MICH.—Village trustees have granted a 30-year franchise to Charles Floyd and B. Van Raalte, Jr., Holland, Mich., to construct and operate an electric light and power plant. Plant is to be in operation by July 1.

GRAND RAPIDS, MICH.—Municipal gas plant will be built if city charter so provides.

The Grand Rapids-Muskegon Water Power Co., recently organized under Maine laws with $1,000,000 capital, will build one or more dams on the Muskegon River, as its needs may require, develop water power for commercial use in Grand Rapids, Muskegon, Big Rapids and other places. The first dam will be built at Rogers bridge, about six miles below Big Rapids. Preliminary work upon this is already well under way. It will cost about $400,000. Thomas Hume, of Muskegon, is Pres.; Thomas Monroe, of Muskegon, and W. A. Foote, of Jackson, are Vice-Presidents; Geo. L. Erwin, of Muskegon, is Secy., and John G. Emery, Treas.

SAULT STE. MARIE, MICH.—F. H. Clergue, and others who have a franchise to construct a gas plant in this city, will begin work on the plant early in the spring.

BATTLE CREEK, MICH.—A municipal gas plant is favored by citizens. An amendment to city charter will be asked of next legislature, allowing the city to build and maintain a gas plant.

PONTIAC, MICH.—Bids may be asked for lighting city streets. Present contract is held by Pontiac Standard Lighting Co., of which George E. Fisher is Pres.

KALAMAZOO, MICH.—The Kalamazoo Gas Co. will spend about $150,000 in enlarging and generally improving its entire system. Work will begin in spring. A new gas holder will be installed at cost of $55,600. F. W. Blowers is Gen. Mgr.

JOLIET, ILL.—N. H. Griswold and Charles A. Munroe, of Chicago, it is said, will develop water power of Desplaines River in this county.

MONITOWAC, WIS.—A franchise has been granted to West Side Electric Co., William Rohr, Pres. A $200,000 electric light plant will be erected at once.

LA CROSSE, WIS.—The Wisconsin Light & Power Co., it is stated, will be granted a franchise. A $150,000 gas plant will be erected. Company was incorporated by J. J. Hogan, G. Van Steenwyk, Henry A. Salzer, John C. Burns and George Schweizer, with capital of $200,000.

CEDAR FALLS, IA.—The Waterloo & Cedar Falls Gas & Electric Co. has been granted a 25-year city franchise to operate a gas plant.

MARSHALLTOWN, IA.—R. W. McBride, Chn. Council Com. on water-works and electric light, has recommended that city lighting plant be improved at cost of $7,000 to $8,000.

CRESTON, IA.—W. H. Schott, 1221 Marquette Bldg., Chicago, Ill., is preparing plans for a gas, electric light and heating plant. Contracts for its construction have been made.

TOPEKA, KAN.—Commercial Club is interested in project to pipe natural gas into this city. The first company to lay pipes will be offered a bonus. C. K. Holliday, Councilman, may be addressed. Also E. S. Montgomery, care of Commercial Club, may be addressed at Kansas City, Kan.

STURGEON, MO.—A committee consisting of W. S. Harris, J. W. Hulett, O. D. Gray and P. I. King, has been appointed to visit Missouri cities to ascertain the cost and advisability of bonding the city for the installation of an electric light plant.

KANSAS CITY, MO.—A gas franchise has been applied for. The backers are: John D. Harris, of Harris, Gates & Co., bond brokers, Chicago; John Cudahy, of Kansas City; Col. J. W. Mundy, Kansas City; William Huttig, Pres. Western Door & Sash Co., Kansas City; Charles D. Braley, of Trimble & Brayley, Bryant Bldg., and Harry D. Train, Pres. Homestead Realty Co., Kansas City.

HUMBLE, TEX.—Bids are asked until Jan. 15 for erecting electric light plant. Probable cost, $15,000. F. A. Peters, Secy. Humble Electric Co. Noted on Dec. 15.

MARBLE FALLS, TEX.—Ladshaw & Ladshaw, Engrs., Spartanburg, S. C., have plans for a cotton mill and electric light and power plant, to be constructed here. Contracts will be let about March 1.

ARBORVILLE, COLO.—A $75,000 power plant will be erected on south fork of Arkansas River. Local capitalists are interested.

FORT SMITH, ARK.—New power house will be erected for the Fort Smith Electric Street Railway Co. Improvements contemplated will cost $180,000. J. J. O'Brien is Auditor of Accts.

ANADARKO, OKLA.—Bids are asked until Jan. 9, 8 p. m., for construction of an electric lighting plant. B. E. Berry, Cy. Clk. $10,000 is available.

SEATTLE, WASH.—L. B. Youngs, Supt. Light and Water, writes us that city electric plant has been installed. Cost, $375,000. Plant will be operated by water. It is located at Cedar River Falls. R. H. Thompson is Cy. Engr.

PROSPECT, ORE.—Frank Ray, owner of the Condor Water & Power Co.'s Gold Ray enterprise is reported to be negotiating for purchase of water power rights owned by T. Salstrom, of this place. The rights include what is known as Rogue River Falls and Mills Falls.

HOOD RIVER, ORE.—Board of Directors of Hood River Electric Light, Power & Water Co., recently elected, is as follows: N. C. Evans, H. F. Davidson, John L. Henderson, J. H. Ferguson and W. H. Chipping. $100,000 of bonds will be issued. Service will be improved.

SAN JOSE, CAL.—National Park Electric Power Co. has been incorporated by J. J. Inman, M. E. Page, W. H. Burgh and others. Capital, $250,000. The company will manufacture electric lighting power.

POMONA, CAL.—Pomona Farmers' Club may be interested in proposition to build a central electrical plant at cost of $300,000.

BISHOP, CAL.—Rodney Curtis, Guilford S. Wood, Clarence M. Hobbs, Frank J. Campbell and Charles F. Potter, of Denver, Colo., are interested in project to develop water power near here. An electric plant will be erected on Bishop Creek to supply power to Goldfield, Nev., mining districts, a distance of 90 miles. The company has secured water rights capable of furnishing 3,000 to 5,000 H.P., in connection with which they control an important system of reservoirs and reservoir sites, by means of which the power can be greatly increased. Surveys have been completed.

ORANGE, CAL.—A special election will be held on Jan. 7 to vote on an issue of bonds as follows: $50,000 for water system, $15,000 for electric light plant, $10,000 for City Hall. H. Wyneken is Cy. Clk.

VICTORIA, B. C.—Council will be petitioned to borrow $40,000 to install a water-power plant in connection with electric light system.

CHILLIWACK, B. C.—The Chilliwac Light & Power Co. will award contracts soon, it is reported, for proposed power development and electric railway.

MORRISBURG, ONT.—Power house will be installed. Address W. McLea Walbank, C. E., of Montreal, Que.

PORT ARTHUR, ONT.—A Duluth, Minn., report states that water power at Kakebeka Falls, 18 miles east of Port Arthur, will be developed next spring by C. R. Hosmer, H. M. Floet, F. W. Thompson and other Montreal capitalists. F. T. Danielson, of Fort William, Ont., is interested. 30,000 HP. may be developed.

WESTMOUNT, QUE.—Municipal electric light plant will be built. F. Fellows is Town Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

TIVERTON, R. I.—O. Perry Sarle, of Providence, R. I., and Atlanta, Ga., has been appointed engineer of the Commissioners of the Tiverton Stone Bridge across Sakonnet River in Rhode Island. This bridge is to be about 1,000 ft. long, including approaches, and having a draw opening giving 100 ft. clear channel way. Plans will be prepared immediately.

GLOUCESTER, MASS.—A new bridge will probably replace old one over canal or Western Ave. W. L. Webber is Cy. Engr.

NEW HAVEN, CONN.—Plans are being prepared by C. W. Kelly, Cy. Engr., for proposed bridge over West River to cost about $20,000. Plans, it is expected, will be ready in about two months.

ELMIRA, N. Y.—It is stated that this city will petition the Legislature for permission to issue 55,000 bonds for constructing a bridge over Chemung River at Lake St.

NEW YORK, N. Y.—Cincinnati, Hamilton & Dayton R. R. has placed a contract with the AMERICAN BRIDGE CO. for 5,000 tons of fabricated steel for bridges. The Harriman lines are also stated to be in the market for 14,000 tons of bridge material. The New York Central R. R. and D., L. & W. R. R. has recently placed contracts for 18,000 tons of bridge material.

NEW YORK, N. Y.—THE WILLIAMS ENGINEERING & CONTRACTING CO., 13 Park Row, has been awarded contract for constructing anchorage for Manhattan bridge, Manhattan end, at $1,197,000. KOSMOS ENGINEERING CO., of Brooklyn, received contract for Brooklyn end, at $1,212,554.

ELMIRA, N. Y.—City will erect a new bridge over Chemung River at Lake St. in place of one condemned.

GALETON, PA.—It is reported that all bids for constructing a bridge here have been rejected. Canton (O.) Bridge Co. was the lowest bidder, at $9,460.

SEELYVILLE, PA.—PENN BRIDGE CO., of Beaver Falls, has been awarded contract to build state bridge here for $16,100.

TOLEDO, O.—Bids are asked until Jan. 19 by County Commissioners for furnishing material and constructing substructure and superstructure of bridge on Clark Ave. over Miami and Erie Canal. D. T. Davies, Jr., County Audr.

GERMANTOWN, IND.—Bridge of Pittsburg, Cincinnati, Chicago & St. Louis Railroad over Martindale Creek, which is 100 ft. long, has been wrecked. Damage about $25,000.

PRINCETON, IND.—We are informed that INDIANA BRIDGE CO., of Muncie, was awarded contract for constructing and repairing bridges for $8,740. F. R. Ewing is County Audr. Bids opened Dec. 30.

CINCINNATI, O.—City Council has adopted plans for Harrison Ave. viaduct. Estimated cost, $250,000. Address City Engineer.

CINCINNATI, O.—It is reported that the Cincinnati, Hamilton & Dayton R. R. Co. will at once let contracts for more than $300,000 worth of new steel bridges, which will be erected on the Cincinnati-Detroit line. C. A. Wilson, City, is Ch. Engr.

HOOPESTON, ILL.—We are informed that bids will be received Jan. 12, 2 p. m., for constructing a 100-ft. highway bridge on 85 cu. yds. squared stone masonry or on concrete. Plans and specifications may be seen at office of Wm. Kavanaugh, City.

MINNEAPOLIS, MINN.—MINNEAPOLIS STEEL & MACHINERY CO., City, received the contract, Dec. 23, for constructing superstructure of Mississippi River bridge at 32d Ave. N.

MINNEAPOLIS, MINN.—The bridge of the Minneapolis, St. Paul & Sault Ste. Marie Railroad, recently destroyed by fire, will be replaced by a steel bridge. Thos. Green, City, is Ch. Engr.

FORSYTHE, MONT.—County Commissioners have awarded contract for building bridge across Yellowstone River at this place, 850 ft. in length, to William S. Hewitt & Co., of Minneapolis, for $53,820.

DALLAS, TEX.—According to reports the Missouri, Kansas & Texas Railroad is planning to put in about ten new steel bridges on its Dallas division. A. B. Manning, of Denison, Tex., is Supt. Bridges.

LAMAR, COLO.—KANSAS CITY (MO.) BRIDGE CO. has been awarded contract for constructing four-span bridge here for $12,237.

PUEBLO, COLO.—PUEBLO BRIDGE CO., it is reported, has been given a contract at $97,460, to build viaduct at Main St. It will be 700 ft. long with a roadway of 56 ft. and two sidewalks.

PORTLAND, ORE.—The Portland Consolidated Ry. Co. will soon commence rebuilding its long trestle across Columbia Slough to Vancouver landing on Columbia River where also a new approach will be built. The trestle is over two miles long.

SANTA BARBARA, CAL.—Bids are asked by C. A. Hunt, Clk. Board of Supervisors, until Feb. 6 for furnishing all labor and material for constructing a bridge across Sisquoc River.

MONTREAL, QUE.—Contract for Atwater bridge over Lachine Canal here has been awarded by railway department to J. H. RODGERS, City.

BATTLEFORD, N. W. T.—E. James, of Winnipeg, Man., Mgr. Canadian Northern R. R., is reported as stating that the probable cost of bridges to be constructed here is $300,000. Work will be done by the company. M. H. McLeod, of Winnipeg, Ch. Engr.

ESSEX, ONT.—County Council may build a new bridge over south branch of Canard River, on town line between Anderdon and Colchester.

WABA, ONT.—Bids are asked by J. D. McNab, Town Clk., until Jan. 16 for building a wooden or steel bridge across Madawaska River, on Arnprior and White Lake roads.

FREDERICTON, N. B.—C. H. LaBillois, Com. Pub. Wks., is asking for bids for Forest City bridge and Five Mile Brook bridge, both in York County.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

STAMFORD, CONN.—Plans have been prepared for new municipal building by Mellen & Joselyn, Archs., 27 West 30th St., New York. Bids will be received about Feb. 1. Edwin L. Scofield is Chn. of Com. in charge of project. Robert Whittaker, Secy. Town has voted to appropriate $150,000.

BRANFORD, CONN.—Bids are being received, according to report, by J. J. Dwyer, Arch., Hartford, for a church for St. Mary's Roman Catholic Society. Cost, about $100,000. Rev. Edward Martin is pastor.

CONCORD, N. H.—The Governor and Council of New Hampshire have recommended the enlargement of the State House here. A report will be submitted to the legislature accompanied by plans and recommendation that $400,000 be appropriated for this purpose.

BUFFALO, N. Y.—Railroad companies entering this city will erect a union station near Main St. Charles W. Goodyear is Chn. of Union Station Commission. The commission, it is said, is prepared to expend from $12,000,000 to $15,000,000 for station and new trackage. Frank S. McGraw is member of commission.

BROOKLYN, N. Y.—Bids are asked until Jan. 12, noon, by John McG. Woodbury, Comr. Street Cleaning, for furnishing material and erecting a stable on block bounded by Kent Ave., Little Nassau St., Flushing Ave. and Graham St.; bids for installing heating, ventilating, plumbing, gas fittings and electric work to be submitted separately.

SYRACUSE, N. Y.—The architectural department of Syracuse University is reported to be working on plans for a new biological and geological building for the university.

LEWISTON, N. Y.—Bids are asked by Board of Education, at office of John H. Coxhead, Arch., 928 Ellicott Sq., Buffalo, until Jan. 16 for the construction of a public school building. T. A. Kerr is Secy.

SYRACUSE, N. Y.—Chamber of Commerce building committee will consider proposition to raise funds for a new building; estimated cost, $250,000. It is said that no plans have been decided upon yet. The building committee consists of: Charles Andrews, Chn.; J. J. Cummins, F. E. Bacon, W. H. Warner, G. L. Merrell, J. M. Gilbert, W. H. Stansfield and Dennis McCarthy. Salem Hyde, D. N. Green, L. C. Smith, Gates Thalheimer, G. M. Barnes, F. E. Bacon, W. D. Dunning, Robert Dey, C. W. Snow, B. J. Shove and C. W. Wood are members of executive committee. Frederick R. Hazard is Pres.

PHILADELPHIA, PA.—William E. Meehan, Comr., State Fisheries Bureau, advocates the establishment of an aquarium at Fairmont Park.

PITTSBURG, PA.—W. J. MARSON, of Akron, O., has been awarded contract for erection of 18 passenger and freight stations for the Baltimore & Ohio Ry. Co., on the Pittsburg division. Standard combination passenger and freight stations will be erected at Broadford, Scott Haven, Taylorstown, West Alexander, Bennett, Bakerstown, Waters, Marionville, Tylersburg and Vowinckle. Freight depots will be built at Gratztown, Chicora, Hacketts, Richmond and Blairs. H. H. Temple is Division Engr. Maintenance of Way.

It is reported that bids will be received at once by Fred Ingersoll, People's Bank Bldg., who has bought a site of 13 acres and has authorized Neal & Rowland, Archs., 219 Fourth Ave. to prepare plans for 30 buildings for a "Luna Park" attraction. The buildings will cost $250,000, and will include a brick and terra cotta office building, a terra cotta entrance to the grounds, a lake, circus ring, roller-coasters and other amusements.

ALTOONA, PA.—Rev. B. C. Connors is reported receiving bids for First Methodist Church. It will be three stories high, 80 × 130 ft., built of brick and stone. Brown & Davis, 433 Wabash Ave., Chicago and Cincinnati, O., and Gillespie & Carroll, New York City, Associate Archs., prepared the plans.

PHILADELPHIA, PA.—Bids are being received by A. N. Redding, 330 Chestnut St., for constructing Calvary M. E. Church. It will be three stories high, 100 × 110 ft. Brown & Davis, 433 Wabash Ave., Chicago, and Gillespie & Carroll, New York, are Associate Archs.

PITTSBURG, PA.—It is stated that F. G. Scheilentrager, Arch., Empire Bldg., will receive bids for three apartment buildings, to cost about $150,000, $100,000 and $60,000, respectively.

WESTCHESTER, PA.—Bids are asked until Feb. 21 for construction, complete, of post-office building here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

PHILADELPHIA, PA.—J. M. STITELER has contract to erect 41 dwellings in West Philadelphia for D. F. McConnell, to cost $67,800. The houses will all be two stories high, with porch fronts.

BALTIMORE, MD.—The Secretary of Bureau Commerce and Labor is said to have recommended that $75,000 be appropriated for the establishment of a lighthouse on the Southwest Bar shoals, one mile south of Poole's Island, in Chesapeake Bay.

Simonson & Pietsch, 302 East Lexington St., have been commissioned by Centre Market Improvement Commission to prepare plans and specifications for municipal buildings to be located on Centre Market Space. The buildings include Maryland Institute, three stories high and covering an area of 23,250 sq. ft.; wholesale fish market, two stories high and covering an area of 25,285 sq. ft., and wholesale produce market, one story high and covering an area of 44,164 sq. ft. The city has appropriated $435,000 for the erection of the buildings. Noted last week. Felix Agnus, 302 East Lexington St., is Chn.

Baldwin & Pennington, Archs., 429 North Charles St., have completed plans for new banking building for the Farmers & Mechanics' Bank, at Lombard and South Sts. It will be one story, 57 ft. high, 53 × 98 ft., stone, steel and brick, fireproof. Cost, about $100,000.

Plans are being prepared for United States Fidelity & Guaranty Co., new building, to be erected at German and Calvert Sts. It will be seven stories, of stone, brick and steel, fireproof. Estimated cost, $150,000. John R. Bland is Pres.

Tentative plans have been prepared for the 15-story office building to be erected on the site of the former Baltimore & Ohio Railroad Co., office building, at Baltimore and Calvert Sts.

WASHINGTON, D. C.—Bates Warren, Columbian Bldg., it is reported, will soon have plans prepared for an apartment house at 12th St. and Massachusetts Ave. Estimated cost, $100,000.

Contract for architectural work for new Freedman's Hospital building has been awarded to Bruce, Price & De Sibour and John Russell Pope, associate, of 1133 Broadway, New York. Plans accepted provide for expenditure of $274,844. Appropriation by Congress is $275,000. Besides these plans, the Secretary of the Interior has approved the action of the commission in awarding a honorarium of $250 each to the following ten architects whose designs were believed to be next in point of excellence: George C. Totten, Washington; Fuller & Pitcher, of Albany, N. Y; Wyatt & Nolting, with Butler & Rodman, associates, of Baltimore, Md.; Mauran, Russell & Garden, of St. Louis, Mo.; Lord & Hewlett, of New York; George Cary and John M. Lyle, of Buffalo; J. H. & W. C. Ely, of Newark, N. J.; Casy & Dillon, of New York; Hale & Morse, of Philadelphia; J. Riley Cordon, with Harry Hornbostel associate, of New York. The building will be of modern construction and fireproof.

NORFOLK, VA.—THE PENN BRIDGE CO., of Beaver Falls, Pa., has been awarded contract for construction of officers' quarters and marine barracks at Norfolk navy-yard, at $133,000, which was a modified bid. John T. McMahon, C. E., of this city, will be engineer-in-charge.

PRATTVILLE, ALA.—The plans submitted by Bruce Architectural Co., Birmingham, have been accepted for the new Autauga County court house. It will be of fireproof construction and cost about $50,000. G. S. Livingston is county judge.

SELMA, ALA.—Bids were received on Dec. 28 by the Supervising Architect, Treasury Dept., Washington, D. C., for the construction complete of the post-office as follows: R. T. Wardrep, Knoxville, Tenn., $53,633; Miles & Bradt, Atlanta, Ga., $56,000; John C. Robinson, Chicago, Ill., $57,594; F. L. Stevenson Contract Co., Dallas Tex., $59,900; Geo. Moore & Son, Nashville, Tenn., $44,000; Tom Lowell, Denton, Tex., $54,306; Athens Construction Co., Athens, Ga., $46,034; Savannah Construction Co., Savannah, Ga., $52,618.

BIRMINGHAM, ALA.—The STOCKMAR CONSTRUCTION & IMPROVEMENT CO., of Birmingham, is reported to have been awarded contract to erect high school building, at $99,987.

NATCHES, MISS.—Bids are asked, until Feb. 9, for construction, complete, of post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

CHATTANOOGA, TENN.—It is said that the Volunteer State Life Insurance Co. will erect a 10-story fireproof office building here at cost of $250,000.

LOUISVILLE, KY.—Bids are asked by Brinton B. Davis, Arch., 505 and 506 The Majestic, until noon, Jan. 16, for the erection and completion of an armory for Jefferson county. L. B. Waters, county treasurer. Contractors can obtain plans from architect upon sending certified check for $125 to insure safe return of plans.

Contracts amounting to $200,000 for the steel skeleton of proposed 9-story office building have been let by the Louisville & Nashville Railroad Co. to the AMERICAN BRIDGE CO. Jonas Werness, Ch. Arch. of the engineer's department, has prepared plans. Noted last week.

COVINGTON, KY.—Samuel Hannaford & Sons, Hulbert block, Cincinnati, O., are reported to have prepared plans for the Mother of God, 4-story parochial school at Covington. Estimated cost, $75,000. Rev. Wm. Tappert is pastor.

AKRON, O.—It is reported that J. Milton Dyer, Arch., 823 Cuyahoga Bldg., Cleveland, has been commissioned to prepare plans for the new Summit county court house, to be erected at Akron. Estimated cost, $225,000.

NILES, O.—E. R. Thompson, Arch., Diamond block, Youngstown, O., has been retained by Board of Education to prepare plans for three 2-room school houses. Total cost, $60,000.

CLEVELAND, O.—A permanent commission probably will be appointed for the erection of new court house for Cuyahoga County. This building will cost about $3,500,000. It will be erected on the Lake front, opposite Ontario St., between Wood and Seneca Sts. Lehman & Schmitt, Archs., 625 Garfield Bldg., are preparing the

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plans. Contracts for the foundation may be let within six months.

It is reported that the injunction against city hall commissioners has been dissolved. Work may now proceed. J. Milton Dyer, 823 Cuyahoga Bldg., is Arch. It is estimated that new city hall will cost $1,500,000.

SAGINAW, MICH.—Edward C. Peters, Secy. Lodge 47, B. P. O. Elks, will receive plans for a $35,000 building. Prizes are offered.

NATIONAL MILITARY HOME, O.—Bids are asked until noon, Jan. 10, by Commissary of Subsistence and Superintendent of Post Fund, Central Branch, N. H. D. V. S., for erection of three greenhouses and office building. John W. Byron, Comr.

VINCENNES, IND.—Lowest bid for constructing post-office here was submitted by Standard Construction Co., of Chicago, at $48,670. Bids were received on Dec. 29.

INDIANAPOLIS, IND.—Arthur Jordan is receiving general bids for construction of First Baptist church. Estimated cost, $90,000. Brown & Davis, 433 Wabash Ave., Chicago, and Gillespie & Carroll, New York, are Associate Archs.

DE KALB, ILL.—Bids are asked until Jan. 30 for construction of post-office. This is an extension of time from Jan. 4. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C. (Advertised, Engineering News.)

CHICAGO, ILL.—C. A. Eckstorm, Tacoma Bldg., has plans for a $100,000 warehouse and stable, to be erected at 18th St. and Indiana Ave. for Cobe & McKinnon.

Bids are asked by Board of Education until noon, Jan. 6, for the following school work: Graham school, 45th St. and Union Ave.: Masonry, cut stone, terra cotta, sheet metal and tile roofing, composition roofing, structural iron, iron stairs, wire guards, carpentry, hardware, painting and finishing, glass and glazing, fireproofing, lathing and plastering, concrete floors, asphalt floors, etc., tile floors, telephones and bells, window shades, steam heating, heat regulation, ventilation, plumbing and gas fitting, sewerage, electrical work. Normal school—Asphalt. Plans, etc., by R. B. Williamson, Acting Arch.; T. J. Waters, Ch. Engr., 714 Tribune Bldg.

CHICAGO, ILL.—Alexander D. Hannah, Pres. of the Hannah & Hogg Co., 307 Wabash Ave., has purchased a site for a proposed 18-story hotel building to be erected at Madison and Clark Sts. The property has a fron age of 90 ft. in Madison St. and 99½ ft. in Clark St. Architects are reported to be preparing sketches. The building will cost about $650,000 and will be of fireproof construction.

OAK PARK, ILL.—Meeting of High School Board will be held on Jan. 14 to vote upon question of issuing $100,000 of bonds for new high-school site and building.

CHICAGO, ILL.—It is announced that the Pennsylvania Railroad Co. will spend $30,000,000 in constructing a new railway station in Chicago. Of this sum $20,000,000 will be used in acquiring laid adjoining the present union depot, and $10,000,000 will be expended on buildings. Plans and specifications for an elaborate group of structures have already been completed, it is said.

DES MOINES, IA.—The Des Moines National Bank, Sixth and Walnut Sts., has had plans prepared by Liebbe, Nourse & Rasmussen, Archs., for a brick bank and office building, it probably will be eight stories high.

OSKALOOSA, IA.—It is announced that the National Holiness Association of America has an option on 230 acres of land east of the city and will build a university here. $500,000 would be expended.

SIOUX CITY, IA.—Wilfred W. Beach, Arch., has drawn plans for an 8-story modern fireproof office building to be erected at Pierce St., opposite the Garretson Hotel, by William Gordon.

FT. MEADE, S. DAK.—Bids are asked by Maj. Geo. K. Hunter, Contr. Q. M., until 2 p. m., Jan. 19, for the construction, heating, plumbing and electric wiring of two sets of field officers' quarters, one double set of lieutenant's quarters, one double set non-commissioned officers' quarters, all to be of brick; and for the construction of one frame stable (Advertised, Engineering News.)

WEBSTER, N. DAK.—Bids are asked by Alexander Cockburn, Clk., Webster School Dist. No. 10, and W. E. Goose, Clk. Freshwater School Dist. No. 7, at Webster, until 10.30 a. m., Jan. 30, for the erection and completion of a 2-story and part basement 4-room school building. Bids for heating and plumbing will be received separately.

FORT SNELLING, MINN.—Bids are asked until Jan. 21 for constructing an addition to electric system at this post. R. M. Schofield, Constructing Q.-M., St. Paul.

SEWARD, NEB.—Competitive plans have been made for a new court house for Seward county. It will be of stone, fireproof construction; tower clock, vaults, etc. Cost, $100,000. J. M. Calder, County Clk.

ST. LOUIS, MO.—Bids are asked by J. W. Wees, Arch., 520 Olive St., until Jan. 15 for the new Jewish Temple B'Nai-El, which will be erected at Spring and Flad Aves. It will be built of brick and Bedford stone, slate roof, tile floors. Estimated cost, $60,000.

The Jewish Hospital Association will build an addition to hospital on Delmar boulevard. August Frank is Pres.

KANSAS CITY, MO.—Funds will be raised by Commercial Club for an armory to be erected for Third Regiment. $300,000 will be necessary.

DALLAS, TEX.—Plans for new Fair grounds auditorium prepared by Otto H. Lang were adopted. Bids will be asked soon.

DENVER, COLO.—Four fire houses are to be erected this year; the cost, including equipment, will be about $270,000.

WALLA WALLA, WASH.—Capt. Noble H. Creager, Q. M., informs us that GOLDIE BROS., of Chicago, were awarded contract to erect two double barracks at Fort Walla Walla. Contract includes heating and amounts to $53,370 for each building. JONES & CRONTON, of Port Townsend, Wash., have contract for plumbing the two barracks at $5,900 each.

Bids are asked until Jan. 31 for installing interior conduit and wiring for electric lighting two double barracks at Fort Walla Walla.

SAN FRANCISCO, CAL.—The officers of the Firemen's Fund Insurance Co. have under consideration the erection of a large building on California St. that may cost approximately $4,000,000. Bernard Faymonville is Vice-Pres.

LOS ANGELES, CAL.—B. P. O. Elks has commissioned A. F. Rosenheim, Arch., to prepare plans for a 5-story building to be located at Olive and Fifth Sts., at estimated cost of $100,000. It is expected that construction work will begin about April 1st.

MONTREAL, QUE.—Marchand & Haskell, of Montreal, have prepared plans for a new building for the Notre Dame Hospital, to be erected on Sherbrooke St., it is said.

OTTAWA, ONT.—The Minister of Public Works will contract for addition of a wing to the West Block, at a cost of $100,000. It will adjoin the customs offices.

VANCOUVER, B. C.—Steve Jones, of Victoria, may erect a $50,000 addition to Dominion hotel at Hastings and Homer Sts.

WINNIPEG, MAN.—The government has decided to build a new jail at a cost of $200,000.

THOMAS KELLY is reported to have contract for new post-office building, at $529,000.

OTTAWA, ONT.—Branch of Royal Mint will be erected here. It will cost $300,000 and be 165 × 220 ft., three stories.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CALAIS, ME.—City will apply to legislature for charter to establish water-works.

HOLDEN, MASS.—Contract for furnishing town with water pipe and specials has been let to DONALDSON IRON CO., Emaus, Pa.

WORCESTER, MASS.—Council has adopted orders authorizing $50,000 loan to provide preliminary steps to utilize Asnebumskit water supply in Holden. Geo. W. Batchelder is Water Comr.

BROOKLINE, MASS.—It will be recommended that town at its next annual meeting appropriate $15,000 for installing water meters. Alexis H. French is Town Engr.

BRISTOL, CONN.—Bristol Water Co., Chas. S. Treadway, Pres., has had surveys completed for new reservoir to be built at Gridley Pond, Harwinton. New pipe line from supply reservoir to reinforce main line is also projected.

DANBURY, CONN.—We are informed that only preliminary steps have been taken as yet toward securing additional water supply. Other reports stated that Aldermen had passed resolution authorizing Mayor to obtain $200,000 bond issue for construction, repair and extension of water-works. Chas. O. Brown is Cy. Engr.

WESTPORT, CONN.—Fire District has rejected offer to purchase plant of Westport Water Co. for $125,000. Wm. J. Woods is Secy. Fire District.

MEDINA, N. Y.—Chas. H. Payson, Portland, Me., owner of Medina Water Co., is reported to have submitted four propositions to Village Committee regarding local water system. In substance, Mr. Payson's offers are to sell present plant to village for $125,000; to lease plant at an unstated rental; to put in filtration plant, with present canal supply, at rental not stated; to use supply from Sowl farm if village will bear expense of connecting it with present distributing system.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, until Jan. 11, for furnishing and delivering iron and brass pipe, fittings, valves, etc. Bids are also asked for repairing ten internally fired Morris boilers at Ridgewood Northside pumping station.

NEWARK, N. Y.—Election was to be held Jan. 5 to vote on $50,000 bond issue to purchase plant of City Water-Works Co. A bond issue of $15,000 for improvements of system and one of $90,000 for establishment of water-works were also to be voted on.

SOMERVILLE, N. J.—Bound Brook Water Co. has applied for franchise to lay 2,540 ft. of water mains along Union Ave. from Bound Brook to Chimney Rock.

BUTLER, N. J.—Referring to construction of water-works at this place, we are informed that franchise for so doing was granted on Nov. 2 to John R. Thompson, Amenia, N. Y. Supply is to be by gravity from Stony Brook, two miles from center of town. A 10-in. cast-iron main, giving a fall of 280 ft., is to be laid. The cost of the plant will be about $48,000, and it will be built by Butler Water Co., for cash, no bonds having been issued. Capital stock of the company is $10,000, and the incorporators are B. H. Fry and John R. Thompson, of Amenia, N. Y., and Arthur A. Tanner, of Waterbury, Conn. John R. Thompson will have charge of construction. Orders for material have been placed as follows: Pipe and specials, placed with WARREN FOUNDRY & MACHINE CO., Phillipsburg, N. J., for March delivery; 47 hydrants, R. D. WOOD & CO., Philadelphia, Pa.; valves, KENNEDY VALVE MFG. CO., Coxsackie, N. Y.; sluice gates, C. W. THOMAS, Detroit, Mich. Contract for valve boxes had not been placed at time of writing.

FRANKSTOWN, PA.—Frankstown Township Water Co. has applied for charter and propose to supply this place with water. A. C. Harnish and W. A. Mattern are interested.

OXFORD, N. C.—Plans for water-works and electric light plant at this place are nearly completed and bids for the work are to be called early in January.

NEW ORLEANS, LA.—Council Committee on Water and Drainage has recommended that bid of William Tod Co., Youngstown, O., for furnishing machinery for water purification station be accepted. Bid totals about $518,300.

DICKSON, TENN.—Municipal works agitated.

FOSTORIA, O.—We are informed that no definite plans have been formulated as yet for projecting extension of city water-works. It is proposed to enlarge present plant by building another reservoir so as to provide additional storage supply from streams. Geo. W. Cunningham is Mayor.

ASHTABULA, O.—City, according to reports, is to vote on $350,000 bond issue for erecting new water-works plant.

NEWARK, O.—The $300,000 bond issue recently voted for erection of municipal water-works is stated to have been sold. P. B. Smith is Cy. Solicitor.

NEW CASTLE, IND.—Council has awarded contract for pump and engine for pumping station to JOHN H. McGOWAN CO., Cincinnati, O., for $5,500.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., has completed report on removal of intake from city pumping station to point above North Park Bridge. Plan includes removal of intake, construction of pure water reservoir, sedimentation lead and long pipe line.

LA CROSSE, WIS.—Council has taken preliminary steps for installation of filtering plant to cost $100,000 and to be constructed in connection with city water system.

LAC DU FLAMBEAU, WIS.—A. C. Tonner, Acting Comr., Office of Indian Affairs, Washington, D. C., writes that all bids received for construction of water system at Lac du Flambeau boarding school have been rejected and matter will be readvertised.

CRANDON, WIS.—G. A. Lancaster, Deputy Clk., writes that bids have been closed for pipe and connections for proposed new city water works, and contracts for rest of work will be let when bonds are issued. Estimated cost of work is $25,000, and Geo. E. Morgan, Chicago, Ill., is Des. Engr. Correspondence should be addressed to the town clerk.

DES MOINES, IA.—Des Moines Water Works Co. is said to be considering laying two miles of new pipe and additional water main to Highland Park.

KANSAS CITY, KAN.—M. V. Watson, Kansas City, Mo., is reported to have applied for a franchise for water works here. Local water company has applied for a renewal of its franchise.

TOBIAS, NEB.—The Mayor writes us that municipal water-works to cost $10,000 are to be installed. A bond issue of $8,000 has been voted. No plans have been drawn as yet. About 8,000 ft. 4-in. and 1,000 ft. 2-in. mains will be required and prices on these are desired. System is to be an air-pressure one.

DULUTH, MINN.—Ordinance has been before Council authorizing $100,000 bond issue for extensions of water and gas services.

MARION, S. DAK.—We are informed that a compressed air system will be used for proposed new water-works at this place. Cast-iron pipe will be laid and 15,000 gal. reservoir constructed. A deep well pump operated by gasoline engine of about 20 H.P. will be installed. The estimated cost of the plant is $6,000. No time has been set for opening bids. J. A. Heeren is interested.

LAUREL, MONT.—Company has been organized here, according to reports, to extend Yellowstone irrigation ditch at a cost of about $60,000.

GRAVETTE, ARK.—Referring to report that local concern was to establish water-works here, we are informed that council will appoint improvement committee to have charge of the matter. Wm. Frazer is Mayor.

CENTER, TEX.—We are informed that contract for water system for this city, supply to be from well, has been let to F. W. AXTELL, Fort Worth, Tex.

CANADIAN, TEX.—Water-works and electric lighting considered. W. D. Fisher may be able to inform.

DALLAS, TEX.—Bids are asked until Jan. 24 for the sinking and completion of a deep artesian well. J. B. Winslett, Cy. Secy. (Advertised Engineering News.)

LAREDO, TEX.—Las Isletas Irrigation Co. has been chartered to develop land in Rio Grande Valley. Erik H. Green, Providence, R. I., and J. K. Berreta, Laredo, are interested.

BASIN, WYO.—Ellick McDonald, Basin, has formed company to irrigate 20,000 acres of land by water from Big Horn River.

FORT WINGATE, N. MEX.—Contract for constructing water supply system at this place has been let to D. J. TIRSWAY, Exchange Bldg., Denver, Colo., for $11,600. Bids were opened Dec. 21.

ROCKFORD, WASH.—Contract for pipe for city water system is stated to have been let to WASHINGTON PIPE & FOUNDRY CO., Tacoma, Wash., for $2,713.

SEATTLE, WASH.—Ordinance has been passed for construction of water main in Western Ave. and other streets at an estimated cost of $95,500. C. B. Bagley is Secy. Pub. Wks. and R. H. Thomson is Cy. Engr.

TILLAMOOK, ORE.—In his report to Council Wm. B. Chase, Engr., estimates cost of proposed new water-works at $42,000. Estimate includes 5.8 miles 10-in. and 3.3 miles 4 and 6-in. mains.

FERRIS, CAL.—Local reports state that Lakeview Water Co. is to be reorganized and will spend about $25,000 for improvement. J. C. Drake, Pres., Los Angeles Trust Co., Los Angeles, Cal., may be interested.

SAN DIEGO, CAL.—Secretary Dixon, of Board of Public Works, is stated to be calling for bids until Jan. 19 for constructing water and sewer system extensions. Work requires following expenditures: Cast iron water main, $73,000; wooden water main, $26,500; sewer main, $96,000.

SANTA ANA, CAL.—City votes to bond for $100,000 to improve and extend water system.

SAN BERNARDINO, CAL.—City Trustees have adopted specifications and bids will be called by City Clerk for extension of water system, which will require about six miles of steel pipe.

ORANGE, CAL.—Election will be held Jan. 7 to vote on $50,000 bond issue for water system and $15,000 bond issue for electric light plant.

SAUSALITO, CAL.—Local reports state that J. Richards proposes to extend his Springbank Water-Works by completing the gravel supply as planned ten years ago, and erecting a pumping station about 30 ft. above the bay level. Work will be commenced at once.

VALLEJO, CAL.—Election may be called to vote on bond issue for construction of 14-in. cast iron water main. James Reney is Mayor.

BOISE, IDAHO.—Council has adopted report calling for issuance of bonds for following purposes: Purchase of cold water system of the Artesian Hot & Cold Water Co., $220,000; purchase of Perrault Canal, $70,000; improvements, $210,000.

HAGERSVILLE, ONT.—By-law to provide funds for fire protection system is to be voted on.

MAGOG, QUE.—Following estimates have been submitted for water works here: System covering present area, pumping from Magog Lake, $68,387; if extended to cover entire town, $83,581; gravity system from Orford Lake, $74,472.

LONDON, ONT.—Report of W. T. Jennings, C. E., Toronto, Ont., on water supply, proposes a second service for fire purposes at an estimated cost of $358,930.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW BEDFORD, MASS.—William F. Williams, Cy. Engr., has submitted report to Council in connection with sewer work. It is estimated that cost of opening and sewering Lucas St. will be $4,250. To lower or extend Crapo St. sewer would probably cost about $15,000.

PROVIDENCE, R. I.—H. E. Wood, Secy. Dept. Pub. Works, informs us that contracts for sewer materials have been awarded, as here given. Bids were received on Dec. 16 for furnishing and delivering on city wharves or on cars in city yard south of Henderson St. the following material:: 13,500 ft. of 12-in. straight pipes, 6,000 ft. of 6-in. straight pipes, 2-ft. lengths; 300 ft. of 15 × 6-in.; 15 ft. of 12 × 12-in.; 75 ft. of 12 × 8-in., and 1,800 ft. of 12 × 6-in. branch pipes; 350 pieces 6, 8 and 12-in. ⅛ bends, 50 pieces of 8-in. 1-16 bends; 400 pieces of 6-in. bevel connections, 24 ins. long; 130 flagstones, 5 ft. × 5 ft. × 4 in.; 130 inlet curbstones for catch-basins. EDWIN D. ALLEN, of Providence, was awarded contract for sewer pipe; SMITHFIELD GRANITE CO., Providence, contract for catch-basin inlet stones, at $4.80 each, and the WARREN-MILLER CO., New Haven, Conn., contract for flagstones at $5.25 each. Walter F. Slade is Comr. Dept. Public Works.

JEWETT CITY, CONN.—Bids are asked until 1 p. m., Jan. 17, for building sewers in this city. Ira F. Lewis, Warden. C. E. Chandler and S. B. Palmer, Engrs., Norwich, Conn.

ROCKVILLE, CONN.—A. William Sperry, Engr., 82 Church St., has submitted plans and specifications for a septic tank system of sewage disposal for this city. S. Noble is Chn. Com. City has voted to petition legislature for right to issue $75,000 of bonds for this purpose.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Jan. 11, for constructing sewers in Butler and Bay 19th Sts. and in Benson and New Utrecht Aves., Boro. Brooklyn. Martin W. Littleton, Pres. Boro.

BINGHAMPTON, N. Y.—Work on new sewer construction will begin soon, it is said. Exchange St., Court St. and Chenango St. will be sewered.

BROOKLYN, N. Y.—Murphy Improvement Co., at $3,-738, and Sigretto & Manino Co., at $3,736, are reported to be lowest bidders for contract to build a sewer in 72d St., Boro. Brooklyn.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Pres. Boro. of Brooklyn, until Jan. 18, for constructing sewers on portions of the following streets: Butler and Bay 19th Sts., Benson and New Utrecht Aves.

BROOKLYN, N. Y.—The following are the three lowest bidders for repairing and reconstructing sewer in Knickerbocker Ave.: Jas. Holmes & Co., $124,444; Sigretio & Menino Co., $126,884; H. A. Rutan & Co., $113,969; all of Brooklyn.

SARANAC LAKE, N. Y.—John L. Collins, Consult. Engr., of Albany, N. Y., has completed plans for six miles of sewer and water pipe extensions for this village; only a part of which is considered necessary to be constructed at this time, extensive repairs are to be made to the reservoir. An appropriation of $78,000 will be voted in the spring for this work and for purchase of land to protect the water-shed.

CORONA, (L. I.), N. Y.—A new village will be laid out south of this place. The Cord Meyer Developing Co. of New York City, has incorporated with $1,200,000 capital, to carry on the work. The land is at Whitepot. New streets will be paved and a sewer system installed.

JERSEY CITY, N. J.—Charles A. Van Keuren, Ch. Engr., has submitted to Street and Water Board his plans for proposed "Horseshoe" relief sewer. $95,000 was appropriated last summer for its construction. Plans place cost at $200,000. If built, it will be of masonry and concrete, 10 × 25 ft. at outlet.

CALDWELL, N. J.—Special report was made by R. C. Bethel to Borough Council at recent meeting regarding sewers. It is recommended that estimates be obtained for complete pipe sewer system, disposal plant and site. Cost, $10,000.

WEST ORANGE, N. J.—Bids were received by Council Dec. 20 for building four sections of town sewer system, the lowest bidders being as follows: Section 4, Antonio Costa, Orange, N. J., $13,809; Section 5, John F. Driscoll, Orange, N. J., $13,635; Section 6, Donato Fusco, Montclair, N. J., $13,664; Section 7, Antonio Costa, $14,-887. Itemized bids for Section 4 are given under Contract Prices. Alexander Potter, 143 Liberty St., New York, is Ch. Engr.

COLLINGSWOOD, N. J.—Separate bids are asked, until Jan. 17, for construction of brick and pipe sewers, for macadamizing of certain streets and laying vitrified block gutters. F. M. North, Clk. Earl Thompson, C.E., Engr.-in-Charge.

BRISTOL, PA.—J. Wesley Wright, Town Clerk, is reported to have stated that it is proposed to petition legislature for permission to issue bonds for the establishment of a sewer system.

ALLEGHENY, PA.—Council has passed ordinance providing for and authorizing expenditure of $25,000 for sewers in Peebles St. and Evergreen Road.

DAYTONA, FLA.—A. S. Tuttle, Consulting Engr., New York, has been engaged to prepare estimates, plans, etc., for proposed sewer system at this city.

YAZOO CITY, MISS.—Kirkpatrick & Johnson, Jackson, are engineers-in-charge for proposed sewer system. Bonds for $100,000 of improvements are reported sold.

CINCINNATI, O.—A trunk sewer will be constructed in Millcreek. If undertaken, it is said the project will require expenditure of much money and time.

YOUNGSTOWN, O.—Dr. Isaac Hartzell, Deputy State Health Officer from Columbus, estimates cost of proposed district sewer on the north hill at $50,000. When completed it will be over 6,000 ft. long, it is said.

RAVENNA, O.—Bids are asked until Jan. 7 for purchase of $40,000 bonds, issued for the purpose of constructing trunk sewers, sewage disposal, flushing tunnels, and intersections for a system of sanitary sewage. S. J. Post is Village Clk.

LAKEWOOD, O.—Bids are asked until Jan. 28 for purchase of $7,805 storm-water sewer bonds. Henry J. Sensel is Village Clk.

ALBION, MICH.—Eaton St. sewer is under consideration.

COLDWATER, MICH.—Bids are asked by the Board of Public Works until Jan. 26 for the construction of sanitary sewers, 10,076 ft. long, 10-24-in., together with the necessary manholes. P. H. Sweeney, Pres.; W. H. King, Cy. Clk. (Advertised, Engineering News.)

MOMENCE, ILL.—Bids are asked until Jan. 16 for constructing 10 blocks of sewers, to cost about $3,100. E. P. Harney, Cy. Atty. (Advertised, Engineering News.)

MOUNT VERNON, ILL.—The Iowa Engineering Co., of Clinton, Ia., informs us that it has prepared plans for a complete sanitary sewer system and septic tank for this place.

BONNE, IA.—K. C. Kastberger, Cy. Engr., is preparing plans for sewage disposal plant. Cost, about $12,500.

DAVENPORT, IA.—North Davenport sewer will be built next spring.

TEXARKANA, ARK.—Contract for sewer in Dist. No. 4 was let to OCKANDER BROS., of Texarkana, at $10,955.

CAPE GIRARDEAU, MO.—City has voted to issue bonds for building sewer system, according to press report.

BEAUMONT, TEX.—Callaghan & Graham are reported lowest bidders for constructing sewers, at $25,837.

HOUSTON, TEX.—Bids are asked, until noon, Jan. 11, for constructing a 4-ft. metal concrete sewer, with catch-basin. John W. Maxcy, 203 Binz Bldg., Houston, is Engr.

ABERDEEN, WASH.—J. J. Dunn & Co., are engineers for the proposed sewer system. P. T. Clark is Cy. Clk.

SACRAMENTO, CAL.—The Board of City Trustees has passed and the Mayor has signed the ordinance providing for the issue of $165,000 of bonds for sewers and levees.

PASADENA, CAL.—Sewer will be constructed in Mentor Ave., Delmar and San Pasqual Sts. Herman Dyer, Cy. Clk.

REDONDO, CAL.—J. Henderson, Cy. Engr., will prepare plans for a septic tank sewer system.

SAN PEDRO, CAL.—Bids are asked until Jan. 10 for building Fifth St. outfall sewer.

CORTE MADERA, CAL.—The Corte Madera Improvement Club is interested in plan to build a sewer system in this town. Bonds for $12,000 may be issued.

LOS ANGELES, CAL.—H. J. Lelande, Cy. Clk., informs us that TRYON-BRAIN CO. was awarded contract, at $35,800, for construction of storm sewer, from a point on Six h St., west of Alameda St., along Sixth St., Mateo St. and Seventh St. to the Los Angeles River: Sizes and approximate lengths of the sewer as follows: 4,658 lin. ft. of circular concrete sewer, diam. 8 ft. 1 in.; eight manholes; 4 class A catch-basins; five No. 2 catch-basins; 4-ft. 30-in. vitrified pipe (Alameda St. lateral); 104 ft. 16-in. vitrified pipe (catch-basin); 176 ft. 14-in. vitrified pipe (catch-basin).

RIVERSIDE, CAL.—Bids are asked until Jan. 24 by A. C. Tonner, acting-Comr. Indian Affairs, Dept. Interior, Washington, D. C., for constructing and completing extensions to water, sewer and electric lighting systems at Riverside school.

SAN DIEGO, CAL.—Bids are asked, until Dec. 19, for construction of extensions to sewer and water systems. F. X. Dixon, Secy. Bd. Public Works. Est. cost for sewer main, $96,000.

LOS ANGELES, CAL.—Bids are asked, until 2 p. m., Feb. 7, for construction of a sewer to connect contagious ward of county hospital building with main sewer. C. G. Keyes, County Clk.

NIAGARA FALLS, ONT.—Council has passed ordinance providing for issuance of $14,000 of bonds for sewers.

SARNIA, ONT.—Bids are asked until Jan. 7 for repair of Waddel Creek drain, about 1,496 rods. Maggie Lowrie, Township Clk.

ST. BONIFACE, MAN.—Council will construct a sewer in Masson St. and Tache Ave. at a cost of $3,437.

GARBAGE DISPOSAL—STREET CLEANING

The names of parties awarded contracts are printed in capital letters.

LOWELL, MASS.—Council has passed order calling for $10,000 appropriation for new garbage crematory.

NEW YORK, N. Y.—Contract for removal of offal for five years has been awarded to M. J. and T. F. WHITE and McKEEVER BROS., the present contractors, at $69,800 per year.

ROCHESTER, N. Y.—Contract for collecting garbage of this city, bids for doing which were opened Dec. 14, is stated to have been let to WM. H. SOURS, JR., for $33,674.

NEW ORLEANS, LA.—Willis J. Roussel & Co. are stated to have asked franchise for exclusive right to collect garbage or house refuse. In return they propose to erect $100,000 reduction plant.

LAKEWOOD, O.—Bids are asked by Board of Health, H. J. Sensel, Clk., until Jan. 16 for collection of garbage of this village.

MUNCIE, IND.—Contract for garbage crematory for this city, bids for which were opened Dec. 12 has been let to DECARIE INCINERATOR CO., Minneapolis, Minn., for $17,869.

FORT WAYNE, IND.—Contract for collecting garbage for ensuing year has been let to HENRY SCHELE for $4,295.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Contract for grading roads in Mystic River Reservation in Medford, Somerville and Arlington, bids for which were received by Metropolitan Park Commission, J. R. Rablin, Engr., Dec. 29, has been let to COLEMAN BROTHERS, Everett, Mass., for $33,530. Itemized bids will be given under Contract Prices.

BRIDGEPORT, CONN.—Street Committee of Common Council will ask Board of Apportionment for $29,920 for new macadam, $12,000 for permanent pavement, $14,750 for street sprinkling and $6,500 for street grading. In addition there will be $1,000 required for removal of trees, $1,000 for crosswalks and $5,000 for sidewalks and gutters. H. G. Scofield is Cy. Engr.

SARATOGA, N. Y.—Board of Supervisors have appropriated about $100,000 for constructing roads in Saratoga County.

NORTH TONAWANDA, N. Y.—Niagara County Board of Supervisors have passed a resolution authorizing that surveys be made for improving Ward, Nash and Shawnee Roads, at a probable cost of $100,000.

BUFFALO, N. Y.—Bids were received Dec. 23 by Department Public Works for paving on Curtiss St., 16,588 sq. yds., and Stanislaus St., 3,890 sq. yds. Louis H. Gipp and Frank V. E. Bardol were the lowest bidders for paving Curtiss St., and Johnson & Mumm was lowest on Stanislaus St. paving. Frank G. Ward, Comr.

NEW YORK, N. Y.—Bids are asked by Maurice Featherson, Comr. of Docks, until Jan. 17, for paving with asphalt the decks of piers 60 and 61 and Bloomfield St. pier, North River.

SUSSEX, N. J.—Bids are asked until Jan. 21 for macadamizing various streets, consisting of about 7,186 ft., 16 ft. wide. F. B. Whittle, Boro. Clk. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—Bids are asked by Street Committee until Jan. 16 for constructing 105,000 sq. yds. of bitulithic, asphalt and block pavement, curbing, excavation, etc. Edw. S. Johnson, Chas. W. Mathis, Danl. Knauer, John Donnelly, Edwin A. Parker, St. Com.; J. W. Hackney, Cy. Engr. (Advertised, Engineering News.)

NEWARK, N. J.—Bids are asked by Committee on Roads and Assessments of Board of Chosen Freeholders of Essex County, until Jan. 9, 3:30 p. m., for grading and paving roads with telford in this county. Wallace Oughtred, Chn.

TOM'S RIVER, N. J.—Wm. Segoine, Engr., of Point Pleasant, informs us that the following were the three lowest bidders for building a gravel road in Lacy Township, about 23,755 ft. in length: Lane & Mathis, Tuckerton, $19,180; Lewis Rafetto, Drexel Bldg., Philadelphia, Pa., $17,133; Chas. R. Lecompte, Lakewood, $18,615. Bids opened on Dec. 27.

BELLEVUE, PA.—Citizens have voted to issue $80,000 bonds for street improvements.

MEDIA, PA.—We are informed that state aid will be asked to macadamize 4,500 ft. of Philadelphia and Baltimore road in Delaware County. Survey has been made. W. Cassmore is Engr., Brandywine, Del.

BIRMINGHAM, ALA.—Following bids were received Dec. 21 for paving Fifth Ave.: Nashville (Tenn.) Paving & Roofing Co., $11 Cherry St., $58,735; and Barber Asphalt Paving Co., Washington, D. C., $55,646.

HUNTSVILLE, ALA.—W. P. Gorman, Supt. Highways, informs us that Madison County expects to issue $100,-000 public highway bonds during year 1905. This work will be contracted.

NEW ORLEANS, LA.—It is reported that the City Engineer is preparing plans and specifications for the repaving of between 30 and 40 city streets, aggregating in all 200,000 sq. yds. of pavement.

LOUISVILLE, KY.—It is stated that bids will be received by Board Public Works until Jan. 16 for construction of three new alleys with brick. J. H. Wellen, Chn.

CINCINNATI, O.—Bids are asked by Board Public Service until Jan. 18 for grading, curbing and laying bitulithic pavement and constructing necessary drains and retaining walls on a portion of East Court St. Geo. F. Holmes, Clk.

CLEVELAND, O.—Board Public Service is planning to widen Denison Ave. 10 ft.

YOUNGSTOWN, O.—C. C. Lloyd, Cy. Clk., announces that the ordinance to proceed with the improvement of Third and Fourth Sts. by paving with vitrified block and setting curbs and to pave Mahoning St. with vitrified block and to grade and improve Emma St., have all passed the council.

CANTON, O.—Council has decided to improve Fourth, Washington and Third Sts.

INDIANAPOLIS, IND.—The following bids were received by Park Board, J. Clyde Power, Engr., for constructing Pleasant Run Boulevard: American Construction Co., $48,500; J. D. Hoss, $52,000. It is probable that the route of boulevard will be changed and new bids invited.

BLOOMFIELD, IND.—Bids are asked by County Commissioners until Jan. 12 for constructing gravel road in Beach Creek and Wright Townships.

JEFFERSONVILLE, IND.—Bids are asked until Jan. 10 for granitoid sidewalks 5 ft. wide with stone curb and vitrified brick gutters: four blocks on Walnut St., and 1½ miles on Market St. Victor W. Lyon, Cy. Engr.

TERRE HAUTE, IND.—City Council is stated to have decided to pave with brick about two miles on Main St.; also on Eighth St. for a distance of three miles.

BOONE, IA.—It is reported that Council has adopted plans for about 2,000 ft. of brick sidewalks and that bids will be taken.

ST. LOUIS, MO.—Council bill that provides for widening of Manchester Ave. was passed by House of Delegates.

SEATTLE, WASH.—An ordinance has been passed ordering the construction of concrete sidewalks on Brooklyn Ave. Est. cost, $6,750. R. H. Thomson is Cy. Engr.

EMERYVILLE, CAL.—Bids are asked by Board of Trustees until Jan. 21 for grading, curbing and macadamizing on San Pablo and Petalta Aves. and Magnolia St.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—W. W. Taber, Arch., has prepared plans for four-story factory, which W. H. Colebrook, Sons & Co. will erect at Orange and Sizer Sts.

MILLVILLE, N. J.—Henry A. Dix & Sons, wrapper manufacturers, it is reported, will rebuild at once their factory recently destroyed by fire.

RAHWAY, N. J.—It is reported that Deuger & Steiner plush manufacturers, will enlarge their plant.

AXLETON, PA.—Plant of Liggett Spring & Axle Co., City, will be enlarged. Cost, $60,000.

PHILADELPHIA, PA.—WM. STEELE & SONS will soon begin the erection of an addition, to cost $100,000, to Orinoka Textile Mills. Fireproof construction, 5 stories, 55 × 178 ft. A two-story boiler and engine house, 46 × 51 ft., will also be erected.

CONSHOHOCKEN, PA.—A. H. & G. W. JONES have been awarded contract for factory for John Wood Mfg. Co. Brick, 1 story, 120 × 60 ft.

LITITZ, PA.—The Ideal Cocoa & Chocolate Co. will soon have plans started for a three-story addition to their factory.

BALTIMORE, MD.—The Broadbent-Davis Mantel Co., Canton Ave. and President St., has awarded contract to J. J. WALSH & SON, builders, 1525 Maryland Ave., for construction of a dye-house to be located at President and Aliceanna Sts. after plans and specifications by Tormey & Leach, Archs., 325 St. Paul St.

WASHINGTON, D. C.—GLEASON & HUMPHREY, 933 D St., N. W., have been awarded contract for an addition to factory for E. J. Hulse. Brick, 2 stories, 50x100 ft.

PETERSBURG, VA.—Southside Mfg. Co. will rebuild its basket and crate factory, recently burned.

BASIC CITY, VA.—The Virginia Stove & Mfg. Co., capital $30,000, has been chartered here. R. E. Edmonds, Pres., Pittsburg, Pa.; A. L. Russell, Gen. Mgr., Waynesboro, Va.

NEWPORT NEWS, VA.—It is stated that A. F. Gaw, Jr., contemplates locating a plant here for manufacturing oil cans and wants estimates on machinery, tolls, etc.

FAIRMONT, W. VA.—Red Rock Fuel Co., capital $1,-000,000, has been chartered here by Wm. M. Kitzmiller, Francis R. Crispen, James McMullan, Walter C. Harris and Henry S. Drinker, Jr., all of Philadelphia, Pa.

WINSTON-SALEM, N. C.—The Wachovia Knitting Co. will erect a mill building.

CLAYTON, N. C.—Clayton Cotton Co. will add new machinery and double capacity of its mill.

CONWAY, S. C.—A laundry will be established here by Chas. Lumm.

CONWAY, S. C.—R. A. Baker will establish bottling works here.

AUGUSTA, GA.—The Leaetta Mill property, recently purchased by G. H. Nixon, will be converted into a plant to manufacture cotton fabrics; the mill will be thoroughly renovated and new machinery added.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

UNADILLA, GA.—J. A. & D. I. King will erect a $5,000 cotton gin here.

ATLANTA, GA.—The Continental Gin Co. will erect a four-story mill building at a cost of $8,000.

JACKSONVILLE, FLA.—Plant of the Florida-Georgia Mfg. Co. was damaged by fire.

JACKSONVILLE, FLA.—J. Ogden Armour will erect a factory building, 320 × 224 ft.

FORT MYERS, FLA.—The West Coast Cypress Co. has been organized here with W. G. Langford, Mgr.

ANNISTON, ALA.—The Anniston Mills Co. will erect a two-story mill building, 70 × 120 ft. Alfred L. Tyler, Jr., is Mgr.

GADSDEN, ALA.—The Adams Knitting Mills Co. will double the present capacity of its plant. Machinery has been purchased.

ANNISTON, ALA.—The local plant of United States Cast-Iron Pipe & Foundry Co. will equip and put in operation pit No. 6. It is necessary to erect two electric cranes and do some repair work for this pit to be put in operation. It will be used to make 36-in. pipe. W. D. Ross is Supt.

PORT GIBSON, MISS.—The erection of a canning factory is contemplated. H. H. Crisler and others are interested.

EBENEZER, MISS.—The Ebenezer Gin Co. has been chartered with a capital stock of $6,000 and with S. N. Sample, Brook Burwell and others, incorporators.

LELAND, MISS.—The Leland Bottling Co. has been chartered with $15,000 capital stock. Incorporators: A. M. Love, B. O. McGee and others.

ALSATIA, LA.—Fire destroyed cotton gin owned by J. Stein & Co.

NEW ORLEANS, LA.—Crescent Ice Co. will increase the capacity of its plant. A brick addition will be erected at a cost of $14,300.

GALLATIN, TENN.—Marshall & Robinson and associates will establish a plant here to manufacture carriages.

CLEVELAND, TENN.—Cleveland Ice & Cold Storage Co., capital $50,000, has been chartered. Incorporators: J. P. Bartlett, I. M. Becker, G. L. Hardwick and J. E. Mayfield.

SOUTH PITTSBURG, TENN.—The South Pittsburg Foundry Co., capital $10,000, has been chartered. Incorporators: T. G. Garrett, A. A. Cook, J. J. Bowers, South Pittsburg, Tenn.; W. H. Palmer and Ed. Schmalzrod, Bridgeport, Ala.

MORRISTOWN, AENN.—The Morristown Trunk Factory will increase the capacity of its plant.

SHELBYVILLE, TENN.—A. A. McCorkle, James H. Neil, Jr., and associates will establish a canning factory here.

GLASGOW, KY.—D. Cookesey and associates will erect a furniture factory here.

MAYSVILLE, KY.—The Maysville Foundry & Machine Co. capital $60,000, has been incorporated by A. M. Danberry, L. F. Anderson and B. J. Gasner.

LOUISVILLE, KY.—Fullenlove Mfg. Co. has been chartered here with a capital of $20,000. Stockholders: E. A. and H. S. Fullenlove and L. S. Leopold, of Louisville.

STEUBENVILLE, O.—RITER-CONLEY MFG. CO., of Pittsburg, will erect steel building to contain new 84-in. plate mill for La Belle Iron Works, City. There will be two buildings one to contain mill and tables and the other for stocking and shipping plates.

MARION, IND.—Wood-working plant will probably be located here. Address W. H. Wiley, Secy. Commercial Club, for information.

KALAMAZOO, MICH.—Central Illinois Envelope Co., City, has let contract to A. J. WHITE for building two factory buildings. Contract price $50,000. Work will begin at once.

CHICAGO, ILL.—Contract for building Sears, Roebuck & Co. plant has been let to THOMPSON-STARRETT CO. It is announced that the amount of the contract will be about $3,000,000. Work on the excavations have just been started. The contract covers the erection of eight buildings.

SIOUX CITY, IA.—It is stated that Schwarschild & Sulberger, of Chicago, will build $1,000,000 packing plant here.

HOT SPRINGS, ARK.—A two-story pasteurized milk plant will be erected here. A. C. Jones is the promoter.

FORT SMITH, ARK.—Fort Smith Refrigerator Co. will increase the capacity of its plant.

AUSTIN, TEX.—Capt. J. A. Hooper, of Austin, and associates will erect a cotton compress here, to cost about $40,000.

SAN ANTONIO, TEX.—The Bem Brick Factory at this place, which was recently purchased by C. E. Williams, of Columbus, O., is to be enlarged and new brick-making machinery installed.

GALVESTON, TEX.—The capacity of the Star Flour Mills will be increased from 800 to 1,000 barrels per day. New machinery will be added at a cost of about $30,000.

BONHAM, TEX.—The capacity of the cotton mill at this place is to be doubled. Capital stock of the company has been increased by $100,000. J. C. Sanders is Mgr.

AMARILLO, TEX.—A. J. Morris of Kansas City, Mo., and associates are investigating the situation here with the intention of erecting a large meat packing plant at Amarillo.

GUTHRIE, OKLA.—The Western Wheel Works, of Guthrie and San Francisco, has been charted with a capital of $200,000. The incorporators are: A. R. Hale and W. E. Von Johannsen, of San Francisco, and G. V. Pattison, of Guthrie.

CLEVELAND, OKLA.—A. G. Jackson and E. B. Booth, of Parkersburg, W. Va., and T. A. Fulton, of New Martinsville, W. Va., will locate a glass factory here.

ANACORTES, WASH.—Press reports state that the Robinson Fisheries Co., W. F. Robinson, Pres., will commence at once the erection of a three-story codfish plant, 150 × 150 ft. First floor will contain engines, boiler tanks, dryers, and apparatus for taking fish from schooners, washing, drying, etc.

SEATTLE, WASH.—Plans have been perfected for the erection of a cement factory at some point along Puget Sound by a new company to be known as Puget Sound Portland Cement Co., with headquarters in this city. W. W. Butler, City, is interested. Articles of incorporation are being prepared. Contracts will be let as soon as plans are prepared.

WALLA WALA, WASH.—A factory for the manufacture of razors, etc., will be established here in the spring by Weston & Graham, machinists, now engaged in business at Republic, Wash.

READERS' WANTS

This Department contains special requests, detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machines and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

CEMENT MACHINERY. — Philadelphia, Pa. — Edw. Cunningham, Civil Engr., Amlithic Co., writes us for information regarding cement materials and appliances and artificial stone machinery.

PEAT.—Glendive, Mont.—Edw. S. Baer, Surveyor, desires information regarding the manufacture of peat. Information should cover machinery, cost and description of process of manufacture.

RAILWAY SUPPLIES.—Douglas, Ga.—C. P. Westmoreland, Supervisor, writes for catalogues, etc., of crank and lever cars and other railway supplies, as he will soon be in the market for the same.

STEAM SHOVEL.—Providence, R. I.—The Providence Construction Co., V. K. Nash, Ch. Engr., is in the market for a light steam shovel about 35-ton traction. Address J. J. Daly, Supt., Box 449.

GASOLINE ENGINE.—College Hill, Ky.—H. E. [illegible] & Co., Engrs., H. B. Forbes, Engr., desire the [illegible] of firms manufacturing gasoline engines.

CEMENT BLOCK MACHINERY.—Panama Canal [illegible] —G. A. Davis, Isthmian Canal Commission, desires to communicate with firms manufacturing cement block machinery.

REFRIGERATOR.—Salt Lake City, Utah.—Lyn[illegible] & Wilson, Civil Engrs., 23 Metallurgy Bldg., writes us that they wish information on the cost of a meat refrigerator operating much the same as a plant for manufacturing ice.

TANKING OUTFIT.—Rockford, Ill.—Carty, Dever, Mannix & Co., 321 W. State St., advise us that they are about to install a complete tanking outfit, including lard and tallow tank filter-pumps, etc., and desire communicating with firms manufacturing the same.

VANCOUVER, B. C.—J. M. McKinnon, Managing Director of Canadian Pacific Pulp & Paper Co., announces that a sawmill and sulphide plant are to be erected at Swanson Bay, construction of which will be proceeded with shortly. It is the intention of the company to build paper mills ultimately.

CORNWALL, ONT.—The Department of Railways and Canals has let contract for machinery for Cornwall canal shops to the RAILWAY SPRING & SUPPLY CO. of Montreal.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SUBWAY.—Nevada, O.—Pennsylvania R. R. Co., according to reports, is to build a subway across Garrett St.

ARMOR.—Washington, D. C.—Bids are asked by Chief Bureau of Ordnance until Jan. 12 for furnishing armor for naval vessels.

LIFT LOCK.—Peterboro, Ont.—Contract for new lift lock on Trent Canal at Kirkfield has been let to DOMINION BRIDGE CO., Montreal, Que.

COALING WHARF.—Savannah, Ga.—Contract for construction of coaling wharf at Savannah Harbor has been let to D. POWER & CO., Savannah, for $3,241.

DITCH WORK.—Litchfield, Minn.—Contract for constructing ditches Nos. 15, 17 and 19 in this county has been let to JERRY SHERWOOD, Hebron, Ind., for $17,700.

DREDGING.—Savannah, Ga.—Bids are asked until Feb. 3 for dredging in Darien Harbor and on Doboy Bar. Lieut. Col. James B. Quinn, Corps of Engrs. (Advertised, Engineering News.)

SWITCHBOARD.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, until Jan. 21, for 29 panel switchboard for Navy Yard, Washington, D. C. M. T. Endicott, Ch. Bureau. Specifications are on file at office of Engineering News, 220 Broadway, New York.

STONE CRUSHING.—Albany, N. Y.—Bids are asked for crushing about 1,500 cu. yds. of stone near Albany. Address "Crusher," Engineering News, New York. (Advertised, Engineering News.)

DRAINAGE SYSTEM.—Burlington, Ia.—Local reports state that C. R. Fickes is making surveys and estimates for a drainage system for the townships of Huron, Jackson, Benton and Burlington.

BREAKWATER.—Toronto, Ont.—Bids are asked by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., until Jan. 26, for construction of extension of breakwater on south side of Toronto Island.

STONE.—Portland, Ore.—Bids are asked until Jan. 31 for stone for the extension of jetty at the mouth of the Columbia River, Ore. and Wash. Maj. W. C. Langfitt, Engrs. (Advertised, Engineering News.)

STEEL CARS.—Pittsburg, Pa.—Pittsburg & Lake Erie R. R. has awarded contract for 1,000 steel cars to PRESSED STEEL CAR CO., for early spring delivery. The cars will be built at McKee's Rocks.

DAM.—Harrisburg, Pa.—Bill is to come before legislature to authorize this city to construct a dam in the Susquehanna River for the purpose of improving and maintaining the sanitary condition of the city.

HAND CARTS, ETC.—Jeffersonville, Ind.—Bids are asked until Jan. 20 for hand carts, harness, wagon parts, sheet metals, etc., and miscellaneous supplies required for Manila, P. I. J. M. Marshall, A. Q. M. G.

BOILERS, ETC.—New York, N. Y.—Bids are asked by William McAdoo, Police Comr., 300 Mulberry St., until Jan. 11 for installing new boilers, propeller shafts, steering gear, etc., and general repairs to steamboat "Patrol."

ANCHORS.—Tompkinsville, N. Y.—Bids are asked at office of Light House Inspector until Jan. 12 for furnishing mushroom anchors required during fiscal year ending June 30, 1905. Capt. M. R. S. Mackenzie, U. S. N., Inspector.

LUMBER.—Washington, D. C.—Isthmian Canal Commission has awarded contract for furnishing Douglas fir lumber for delivery on Isthmus to J. J. MOORE & CO., San Francisco, Cal., for $63,181. Bids were opened Dec. 17.

DRY DOCK.—Washington, D. C.—Contract for completing dry dock at Mare Island, Cal., bids for doing which were opened by Bureau Yards and Docks, Oct. 29, has been let to SCOFIELD CO., 21 Park Row, New York, for $1,385,000.

LAMP-POSTS, CROSS-HEADS, ETC.—New York, N. Y. —Bids are asked by Commissioner Water Supply, Gas and Electricity, until Jan. 11, for furnishing and delivering 500 lamp-posts, 1,000 cross-heads, and 1,500 fire alarm lantern glasses.

PIPE LINES.—Kansas City, Mo.—Wyandotte County Commissioners have granted two franchises for pipe lines for natural gas or oil in that county, one of these being secured by M. M. Sweetman, representing Kansas Natural Gas & Oil Co. and the other by A. M. Clark, Chas. A. Brady and Geo. M. Canterbury, who will form a company in a few days.

LATRINES.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, until Jan. 28, for construction of brick latrine at Naval Station, New Orleans, La.; $4,500 is available for the work. M. T. Endicott, Ch. Bureau. Specifications are on file at office.

RAILWAY TRACKS, STAIRWAY, ETC.—New York, N. Y.—Bids are asked by Geo. E. Best, Comr. of Bridges, until Jan. 19, for the construction of railway tracks and stairways and the reconstruction of expansion joints on the bridge over the Newtown Creek, from Manhattan Ave., Boro. of Brooklyn, to Vernon Ave., Boro. of Queens.

SHEARS.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, until Feb. 4, for making improvements to the 100-ton shears at the Navy Yard, League Island, Pa. $16,000 is available for the work. M. T. Endicott, Ch. Bureau. Specifications are on file at office of Engineering News, 220 Broadway, New York.

PLUMBING MATERIALS, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Jan. 18 for furnishing plumbing material and tools for general use in the Canal Zone, consisting of cast-iron pipe, vent tees, hubs, oakum, and miscellaneous lot of brass screws, ferrules, cocks, solder nipples and drawn brass tubing.

OIL FUEL PLANT.—Springfield, Mass.—Bids are asked by Col. Frank H. Phipps, Ord. Dept., U. S. A., Springfield, until Jan. 19, for furnishing and installing a fuel oil plant, consisting of two oil storage tanks, air compressor, air receiver, oil pump, and necessary pipe fittings and oil burners for connection with 31 furnaces; also supply of extra burners.

DAM AND LOCK.—Boston, Mass.—Contract for building Charles River Dam and Lock, bids for which were received Dec. 20 by Charles River Basin Commission, Hiram A. Miller, Ch. Engr., has been let to HOLBROOK, CABOT & ROLLINS, 6 Beacon St., Boston, Mass., their bid being $801,697. Itemized bids for the above work were given in our issue of Dec. 29.

CEMENT, GRANITE, DRILLS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Jan. 31 for furnishing at Navy Yards, Mare Island, Cal.; Puget Sound, Wash., and Naval Training Station, San Francisco, Cal., a quantity of naval supplies, among which is Portland cement, crushed granite, drills, emery wheels, steam pump, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

DRY DOCK.—Washington, D. C.—Following bids were received by Bureau Yards and Docks, Dec. 31 on items 1 and 2, for constructing dry dock No. 4 at New York Navy Yard: John Peirce, 277 Broadway, New York, (1) $885,000; (2) $769,000. Geo. B. Spearin, 17 Battery Pl., New York, (1) $773,292; (2) $700,221. The United Engineering & Contracting Co., 13 Park Row, New York, (1) $815,934; (2) $741,760. Buckley Realty Construction Co., Times Bldg., New York, (1) $1,896,400. The New York Continental Jewell Filtration Co., 15 Broad St., New York, (1) $829,880; (2) $769,880.

LOCOMOTIVE EQUIPMENT.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Jan. 18 for furnishing 25 sets of Westinghouse air brake equipment for four-wheel dump cars; 30 sets of Westinghouse air brake equipment, with 9½-in. air pump, packed with U. S. metallic packing, train connection, and pipe leading to front end of engine; 60 sets of Westinghouse air brake equipment, with 9½-in. air pump, packed with U. S. metallic packing, train connection, and pipe leading to front end of engine; 30 sets American Brake Co. outside equalized driver brake equipment; 20 sets American Brake Co. outside equalized driver brake equipment. (Advertised, Engineering News.)

TRAVELING CRANE.—Washington, D. C.—Following bids were received by Bureau Yards and Docks Dec. 31 for a 40-ton electric crane for Navy Yard, Puget Sound, Wash.: Manning, Maxwell & Moore, 85 Liberty St., New York, $8,848 and $7,884; Pawling & Harnischfeger, 160 Clinton St., Milwaukee, Wis., $7,985; The Wellman Seaver Morgan Co., 1298 Central Ave., Cleveland, O., $8,955; Whiting Foundry Equipment Co., Harvey, Ill. $7,450; The Case Mfg. Co., Columbus, O., $7,100; The Niles Bement Pond Co., 136 Liberty St., New York, $6,865; The Alliance Machine Co., Alliance O., $7,762; The Morgan Engineering Co., Alliance, O., $9,100; The Cleveland Crane & Car Co., P. O. Box 27, Wickliffe, O., $6,490.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

CEMENT FACTORY.—Cuba.—Greater part of factory of Almendares Cement Co. is reported to have been destroyed by fire with $300,000 loss.

ASPHALT.—Cuba.—Matanzas Asphalt Co., Matanzas, Cuba, is making investigations to ascertain the location of their asphalt beds, most of which are under water. It is stated that in a short time the necessary tools for mining this property will be ordered in the United States.

WATER SUPPLY.—Cuba.—Following bids were received Dec. 15 by Department Public Works, Juan M. Portuondo, Ch. Engr., Dec. 15 for construction of water supply system for this city. M. J. Dady & Co., Cardenas, Cuba, and 380 Fulton St. Brooklyn, N. Y., $459,958; M. P. Marcelin,

Maleja 12, Havana, $406,873; Eduardo J. Chibas, Enramadas baja 16, Santiago de Cuba, $415,618; SNARE & TRIEST CO., Mercaderes 11, Havana $380,869 (awarded contract); Pedro Aguilera y Samuel S. Wilkinson, Santiago de Cuba, $412,513; Juan Real, San Geronimo alta 2, Santiago de Cuba, $410,926. Offices of Snare & Triest, in New York City, are at 39 Cortland St.

WIRELESS TELEGRAPH STATIONS.—Hawaii.—Honolulu advices state that J. T. Arundel, Mgr. of South Sea Guano Co., which operates the guano beds Ocean, Gilbert, Marshall and other South Sea islands, is to consider feasibility of establishing wireless telegraph so as to secure communication between different islands controlled by his company.

RAILWAY.—Alaska.—Dawson, Grand Forks & Stewart River Ry. Corp., Ltd., has been formed to take over holdings of Klondike Mines Ry. Co., and it is now stated that J. A. Chute, Dawson, will begin construction work in the spring. Road, which is to be narrow gage, will be built from Dawson or Klondike City to Grand Forks, a distance of about 14 miles.

WATER SUPPLY.—Hawaii.—Matter of gravity water supply for Honolulu is to go before legislature for approval. Plans have been prepared for a reservoir in Nauanu holding 100,000,000 gallons, to be 600 feet above sea level. Another smaller reservoir should be built at a still greater altitude in Kalihi Valley. C. S. Holloway, Honolulu, is Supt. Pub. Wks.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

BUILDING.—Tampico.—Construction of new theatre here is under consideration.

RUBBER FACTORY.—Torreon.—Continental Rubber Co. contemplates establishment of a plant in Torreon.

PIANO FACTORY.—Chihuahua.—Edward Lines, Chihuahua, and associates are to establish piano manufactory here.

IRRIGATION.—Villa de Guadalupe, Mexico.—Landowners of this section have organized a company with a capital stock of $180,000 to construct and operate a large system of irrigation.

IRRIGATION WORKS.—City of Mexico.—Perez Bolde has applied for privileges to utilize waters of Amealco or El Tigre Arroyo, Gto., for irrigation purposes.

POWER PLANT.—Sonora.—Company is being organized in Hermosillo and Ures, Sonora, to divert water from the river near Ures, the water to be used first in the development of power, and then for irrigation.

RUBBER FACTORY.—Creel, Chihuahua.—Salvador Madero, of Parras, state of Coahuila, and Guillermo Munoz, of Chihuahua, will establish a large factory near here to manufacture rubber from the guayule plant.

LAND IMPROVEMENT.—City of Mexico.—Capitalists, headed by Major S. W. Ferguson, of Los Angeles, Cal., have purchased 120,000 acres of land in Juchitau District, state of Oaxaca. It is proposed to develop the property.

POWER PLANT.—City of Mexico.—Applications have been made to the Government by Frank Turner for use of water of Aros River, Chihuahua, for motive power, and from Andres Matienzo, for use of water of Atoyac River, Puebla, for the same purpose.

FURNITURE FACTORY.—Mexico.—A. F. Johns and S. W. Ferguson, Los Angeles, Cal., have completed a deal by which a syndicate controlling 110,000 acres of land in this country will engage in manufacture of furniture from native rosewood, mahogany and cedar.

TELEPHONE IMPROVEMENTS.—City of Mexico.—It is expected that Mexican Telephone Co., T. F. Maguire, Gen. Mgr., will shortly commence laying its new underground system, and that plans for the general improvement of the plant will soon be put into force.

DRAINAGE CANAL.—Merida.—Nicolas Escalante Peon, of Merida, Gen. Mgr. of the United Railroads of Yucatan, and Jose Aosado, a millionaire henequin planter, propose to construct a canal 300 ft. wide, from Xculucya to Chelem, for the purpose of draining a large swamp.

RUBBER FACTORY.—Mexico.—F. Ephraim, of San Francisco, Cal., has secured a patent in Mexico for a machine to extract rubber from the guayule plant. It is stated that parties in the United States are backing him in a project to manufacture rubber from the guayule plant on an extensive scale in this country.

SANITARY WORKS.—City of Mexico.—A contract has just been entered into between Mexican Government and MESSRS. FERNANDEZ CASTELLO & PAYRO for the completion of the remainder of the sanitary and drainage works of this city. The contract amounts to about $670,000, and must be completed by Dec. 31, 1906. Work is to be commenced by Jan. 15.

FOREIGN CONTRACTS—EXPORT NEWS.

The names of parties awarded contracts are printed in capital letters.

SEWERAGE.—England.—Council of Southport is about to formulate a sewage scheme involving expenditure of $175,000.

ELECTRICAL WORK.—England.—The report of Alfred Blackman, Cy. Elec. Engr., of Bradford, on the distribution of electricity by the city, contains recommendations involving expenditure of about $200,000.

RAILWAY EXTENSION.—England.—Contract for constructing the Cardiff Ry. Co.'s new line between Taff's Well and Treforest has been let to OLIVER & SON, Contractors, of Victoria St., Westminster. The expenditure on the proposed extension will amount to about $1,250,000.

TRAMWAY EXTENSION.—England.—City Council of Birmingham contemplates an expenditure of about $5,000,000 in connection with tramways development.

DRAINAGE SYSTEM.—Chile.—Contract for construction of drainage and sewer system for Santiago has been let to the COMPAGNIE DES ENTIGNALLES, a French firm, which offered to do the work for $6,750,000.

RIVER IMPROVEMENT.—London.—Thames Conservancy has passed clause of bill for deepening, widening and improvement of bed and channels of the Thames. Clause provides for borrowing powers up to $15,000,000.

RAILWAY.—China.—THE QUONG TUCK CO., of Seattle, Wash., has secured an order for equipment for construction of a new railroad in China, to run from San Ning northward into the province of Canton. Ultimately the line will be extended to Fuchan, to connect with a line running to Canton. American equipment is to have the preference.

RAILWAY.—Argentina.—A concession has been granted to Carlos P. Lumb y Compania, of Buenos Aires, to build a railway from Santa Regina, a station of the Ferrocarril al Pacifico, to La Zanja, a station of the Ferrocarril Oeste. The Argentine Government has abolished all duty on building material and rolling stock for the next 20 years. Correspondence with regard to this matter should be directed to Carlos P. Lumb y Compania, Buenos Aires, Argentina.

INDUSTRIAL NOTES.

THE HANCOCK INSPIRATOR CO. has just placed on the market a new line of valves of especial high quality, designed to give satisfaction under very high pressures. The valves are made in globe, angle and cross styles, and both screwed and flanged in sizes up to 3 ins. We are informed that, under actual test, the bodies of these valves will stand a pressure of 4,000 lbs. per sq. in. without breaking, and they are all tested before leaving the works with 1,000 lbs. per sq. in. water pressure, and are guaranteed to be tight at that pressure. They are also guaranteed for 500 lbs. steam pressure. The details of the valve have been carefully worked out to provide strength, durability, freedom from cutting, and ease of regrinding when the valve leaks.

THE UNITED STATES STEEL PILING CO., 135 Adams St., Chicago, reports that its special section for sheet piling has been successfully rolled at the Homestead Works of the Carnegie Steel Co. This form of sheet steel piling was described and illustrated in our issue of Sept. 29, but there had been some doubt expressed as to whether such a section could be successfully rolled.

THE B. F. STURTEVANT CO., of Hyde Park, Mass., states that the rigid specifications drawn by the United States Navy Department for auxiliary engines required in the equipment of vessels of recent construction, have done much to improve their general standard of efficiency. It is therefore unusual to find that even these exceptional requirements have been improved upon. Sturtevant cross-compound engines have shown upon an economy test a consumption of steam per horse-power per hour fully 4 lbs. less than that demanded by the specifications. These results are characteristic of a line of specially high grade engines being built by the above mentioned company to develop from 25 to 150 HP. When the gases pass through an economizer containing pipes arranged longitudinally in straight rows with intervening straight free air spaces, they do not come into contact with a large part of each pipe; in other words, they are not sufficiently agitated by the pipes. In fact, there is always a considerable amount of gas which passes quickly through the openings between the rows of pipes without giving up any appreciable heat until it joins with the colder gases at the economizer outlet. The patent arrangement of "staggered pipes" in the Sturtevant Economizers in which the several sections are so arranged that the pipes of any one section stand longitudinally opposite the spaces between the pipes of adjoining sections overcomes this loss of heat. With this arrangement the gases are agitated and come into contact with a maximum area of the economizer pipes utilizing a maximum amount of the waste heat from the boiler.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

The names of parties awarded contracts are printed in capital letters.

WATER MAINS.—New York, N. Y.—The following bids were received by Commissioner Water Supply, Gas and Electricity, Dec. 21, for furnishing, delivering and laying water mains in various streets of Bronx Borough: (1) Cunningham & Kearns Contracting Co., 440 East 91st St.; (2) Norton & Dalton Contracting Co., 27 West 140th St.; (3) Phoenix Contracting & Supply Co., 519 East 80th St.; (4) Jno. Cornwell, 69 East 127th St.; (5) Lloyd Collis, 13 Park Row; (6) P. Goodman, 108 East 117th St.; (7) Jos. Gallo, 127 Mulberry St.; (8) Peace Bros., Flushing, L. I.; (9) Wilton Contracting Co., Williamsbridge, N. Y.; (10) Clinton Beckwith, Jerome Park. All bidders from New York, unless otherwise noted.

Bids received at New York, N. Y., December 21, 1904, by Commissioner Water Supply, Gas and Electricity, for Furnishing, Delivering and Laying Water Mains in Various Streets of Bronx Borough.

Items.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1870 tons pipe	$28.00	$27.00	$26.00	$25.00	$28.00	$30.65	$30.50	$29.25	$27.50	$27.50
60 tons specials	60.00	65.00	55.00	60.00	60.00	60.00	60.00	61.50	60.00	55.00
10 cu. yds. rock without blasting	5.00	10.00	15.00	6.00	10.00	20.00	4.00	5.00	.32	5.00
1,700 cu. yds. rock	2.00	.30	3.00	2.00	2.75	4.00	2.00	4.00	.32	3.25
22,000 cu. yds. earth	.25	.30	.35	.32	.25	.25	.25	.40	.32	.30
22,500 cu. yds. filling	.25	.30	.20	.32	.15	.10	.14	.24	.32	.25
14,000 lin. ft. 20-in. pipe, laid	.45	.50	.50	.90	.75	.50	.50	.55	.49	.50
150 lin. ft. 16-in. pipe	.40	.40	.40	.50	.50	.50	.30	.55	.49	.50
2,000 lin. ft. 12-in. pipe	.33	.25	.30	.30	.35	.35	.30	.25	.35	.35
18,000 lin. ft. 6-in. pipe	.16	.17	.20	.15	.20	.20	.15	.15	.18	.20
200 lin. ft. 4-in. pipe	.16	.17	.18	.10	.20	.10	.15	.15	.18	.20
7 20-in. stop cocks	340.00	250.00	300.00	400.00	300.00	375.00	250.00	340.00	309.00	350.00
1 16-in. stop cock	100.00	80.00	100.00	200.00	100.00	110.00	125.00	340.00	105.00	150.00
2 12-in. stop cocks	80.00	90.00	80.00	100.00	85.00	100.00	80.00	80.00	85.00	80.00
101 6-in. stop cocks	35.00	37.00	45.00	40.00	35.00	35.00	35.00	38.00	41.00	40.00
122 single nozzle hydrants	70.00	69.00	70.00	80.00	62.00	70.00	70.00	70.00	74.00	65.00
6 blow-offs	15.00	15.00	10.00	10.00	10.00	20.00	15.00	10.00	10.00	15.00
150 cu. yds. brick masonry	10.00	12.00	11.00	.01	15.00	15.00	.01	15.00	15.00	12.50
50 cu. yds. concrete "	5.00	10.00	4.00	.01	10.00	8.00	.01	7.00	5.00	7.50
50 sq. yds. asphalt pavem't	4.00	4.00	4.00	.01	4.00	4.00	.01	4.50	.01	4.00
300 ft. pave and flag	.01	.50	.45	.01	.50	.50	.01	.45	.01	.50
1,300 sq. yds. macadam	.01	.50	.40	.01	.75	.50	.01	.35	.01	.40
500 ft. curb	.01	.10	.10	.01	.10	.01	.01	.10	.01	.10
500 B. M. lumber	30.00	.01	20.00	.01	30.00	50.00	.01	50.00	.01	25.00
Totals	$97,303	$95,654	$98,968	$101,158	$102,224	$105,080	$97,368	$107,995	$97,935	$101,987

GRADING.—Boston, Mass.—Following bids were received by Metropolitan Park Commission, J. R. Rablin, Engr., Dec. 27, for grading roads in Mystic River Reservation in Medford, Somerville and Arlington: (1) Ruggles & Perkins, Boston; (2) Gow & Palmer, Boston; (3) Frank Williams, Boston; (4) Rowe & Perini, South Framingham, Mass.; (5) T. H. Gill & Co., Boston; (6) COLEMAN BROTHERS, Everett, Mass. (awarded contract).

Bids received at Boston, Mass., Dec. 27, 1904, by Metropolitan Park Commission, for Grading Roads in Mystic River Reservation in Medford, Somerville and Arlington.

	(1)	(2)	(3)	(4)	(5)	(6)
5,000 cu. yds. earth grading	$ .56	$ .45	$ .50	$ .30	$ .34	$ .40
50,000 cu. yds filling material from river	.97	.95	.75	.71	.64	.60
1,200 lin. ft. 10-in. pipe drain	.60	.40	.80	.60	.45	.40
600 lin. ft. 12-in. pipe drain	.75	.46	1.00	.70	.50	.50
600 lin. ft. 15-in. pipe drain	1.00	.60	1.10	.85	.65	.70
300 lin. ft. 18-in. pipe drain	1.25	.78	1.25	.95	.75	.85
15 cu. yds. rubble masonry	10.00	6.00	4.50	8.50	5.00	5.00
Totals	$53,595	$51,190	$42,662	$39,062	$35,230	$33,530

*SEWERS.—West Orange, N. J.—Bids were received by Council Dec. 20 for constructing four sections of the town sewer system. The low bidder for Section 5 was J. F. Driscoll, Orange, N. J., at $13,635; for Section 6, Donato Fusco, Montclair, N. J., at $13,664, was low bidder; and Antonio Costa, Orange, N. J., at $14,887, was low bidder for Section 7. The following prices were fixed by contract: Rock (shale), $2 per cu. yd.; sheathing, $20 per m. B. M.; quicksand, $1.25 per cu. yd.; sulphur sand joints, .05 per ft. of sewer. Alexander Potter, 143 Liberty St., New York, is Ch. Engr. The itemized bids received on Section 4 were as follows: (1) Antonio Costa, Orange, N. J.; (2) J. A. Christie, Newark, N. J.; (3) J. F. Driscoll, Orange, N. J.; (4) Donato Fusco, Montclair, N. J.; (5) Chas. Ippolito, Orange, N. J.; (6) L. J. Richardson Co., Owego, N. Y.; (7) Stone, Grossart & Co., Philadelphia, Pa.; (8) M. O'Herron & Co., Pittsburg, Pa.; (9) Chas. Cooke, Poughkeepsie, N. Y.; (10) Harrison Construction Co., Newark, N. J.; (11) Bowman Bros., McKeesport, Pa.:

BIDS RECEIVED AT WEST ORANGE, N. J., DEC. 20, 1904, FOR CONSTRUCTING SECTION 4 OF TOWN SEWERAGE SYSTEM.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
500 ft. of 8-in. pipe sewer under 6 ft. deep	.40	.49	.43	.42	.50	.45	.60	.57	.50	.45	.75
9,610 ft. " " " 6 to 8 " "	.43	.49	.50	.49	.53	.55	.64	.64	.65	.60	.80
5,870 ft. " " " 8 to 10 " "	.53	.53	.55	.57	.65	.65	.70	.74	.80	.80	1.00
1,285 ft. " " " 10 to 12 " "	.70	.76	.71	.63	.72	.90	.80	.87	.95	1.10	1.35
395 ft. " " " 12 to 14 " "	.80	1.50	.78	.75	1.15	1.25	.90	1.12	1.10	1.50	2.75
50 ft. " " " 14 to 16 " "	1.25	2.50	.90	.79	1.25	1.50	1.02	1.47	1.25	2.00	3.75
48 ft. of 8-in. cast iron pipe sewer, 6 to 8 ft. deep	1.00	1.50	1.40	1.67	2.00	1.50	1.50	1.60	1.25	2.00	3.00
5,300 ft. of 4-in. house connections	.30	.35	.27½	.32	.35	.32	.36	.42	.40	.40	.25
50 manholes, 10 ft. deep or less	32.00	45.00	48.40	47.00	35.00	38.00	42.00	37.00	40.00	45.00	45.00
1 intersection manhole	40.00	55.00	55.00	49.00	60.00	50.00	72.00	47.00	40.00	50.00	55.00
10 ft. of manholes over 10 ft. deep	3.00	4.00	5.50	3.00	3.00	5.00	4.20	6.00	5.50	4.00	4.00
20 ft. of drop manholes	1.00	4.00	5.50	3.50	5.00	2.00	4.20	6.00	3.00	5.00	5.50
16 flush tanks	70.00	95.00	75.00	87.00	65.00	75.00	67.20	70.00	90.00	85.00	80.00
690 branches on 8-in. pipe	1.00	.75	.83	.77	.75	.50	.60	.75	.75	.55	.60
100 ft. of deep cut connections	.10	.45	.27½	.67	1.00	.50	.60	.75	.25	1.00	.40
1,000 lin. ft. timber cradle	.05	.20	.06	.03½	.35	.30	.42	.20	.15	.15	.40
10 cu. yds. extra brickwork	5.00	8.00	13.00	5.75	10.00	10.00	12.20	10.00	7.00	13.00	10.00
10 cu. yds. concrete	3.00	9.00	6.75	6.50	5.00	8.00	7.20	8.00	7.00	7.00	10.00
Totals	$13,899	$14,539	$15,736	$15,833	$16,649	$16,934	$18,412	$18,885	$19,517	$19,638	$22,528

BITULITHIC PAVING.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposals for Paving Atlantic Avenue," with the name of the person or corporation making the bid, will be received by the City Clerk, at Council Chambers, in the City Hall, between the hours of 8 and 8.30 o'clock, p. m., Monday, January 16, 1905, during a session of City Council.

The City Engineer's Estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and laying of:

93,000 sq. yds. of Bitulithic Pavement, including concrete foundation.
12,000 sq. yds. of Vitrified Fire Clay Block Pavement, including concrete foundation.
90 cu. yds. of extra concrete.
44,400 cu. yds. of excavation.
2,900 lin. ft. Bluestone heading stones.

The bidder must deposit with the City Engineer, at his office, before 5 o'clock, p. m., Wednesday, January 11, 1905, two (2) sample vitrified paving blocks of the kind he proposes to furnish and of the size and quality described in the specifications, labelled with the name of the bidder, and the place of manufacture. Each bidder may submit samples of more than one kind of block proposed to be furnished at the one price bid, but with the understanding that the Street Committee shall make the selection.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum of Ten Thousand Dollars ($10,000).

Surety Company Bond will be required in the sum of one-half of the contract price for the entire work, based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

EDWARD S. JOHNSON,
CHARLES W. MATHIS,
DANIEL KNAUER,
JOHN DONNELLY,
EDWIN A PARKER,
Street Committee.

J. W. HACKNEY, City Engineer. 1-1t

CURBING, ETC.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposals for Curbing Atlantic Avenue," with the name of the person or corporation making the bid, will be received by the City Clerk, at Council Chambers, in the City Hall, between the hours of 8 and 8.30 o'clock, p. m., Monday, January 16, 1905, during a session of City Council.

The City Engineer's Estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and setting of:

29,300 lin. ft. of straight steel-protected concrete curbing, including excavation.
3,500 lin. ft. of curved steel-protected concrete curbing, 10 ft. radius, including excavation.
173 lin. ft. of curved steel-protected concrete curbing, 2 ft. radius, including excavation.
63 lin. ft. of curved granite curbing, 10 ft. radius and 6 inches in width, including excavation and concrete at joints.
31 lin. ft. of curved granite curbing, 10 ft. radius, 8 inches in width, including excavation and concrete at joints.
150 lin. ft. of granite curbing, reset, including excavation and concrete at joints.
49 cast-iron inlet frames and grates, 2 ft. long.
144 cast-iron inlet frames and grates, 3 ft. long.
180 cu. yds. of brick masonry.
25 cu. yds. of concrete (not included in other items).
7,400 ft. B. M. of long leaf yellow pine lumber, merchantable inspection (not included in other items).
5,000 ft. B. M. of Virginia pine or short leaf yellow pine lumber, square-edged inspection (not included in other items).
104 lin. ft. of 10-in. vitrified clay pipe, including board foundation and cradle blocks.
100 lin. ft. of 10-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
233 lin. ft. of 12-in. vitrified clay pipe, including board foundation and cradle blocks.
54 lin. ft. of 12-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
813 lin. ft. of 14-in. vitrified clay pipe, including board foundation and cradle blocks.
1,110 lin. ft. of 14-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
813 lin. ft. of 18-in. vitrified clay pipe, including board foundation and cradle blocks.
813 lin. ft. of 18-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
504 lin. ft. of 14-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
360 lin. ft. of 18-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
8 14-in. cast-iron tees, 8-in. outlets, with plugs, including board foundation, cradle blocks and concrete.
5 18-in. cast-iron tees, 8-in. outlets, with plugs, including board foundation, cradle blocks and concrete.
2,114 cu. yds. of excavation (not included in other items) to specified lines, above Elevation + 6.00 ft.—City Datum.
1,195 cu. yds. of excavation (not included in other items) to specified lines, above Elevation + 6.00 ft.—City Datum.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum of Five Thousand Dollars ($5,000).

Surety Company Bond will be required in the sum of Ten Thousand Dollars ($10,000).

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

EDWARD S. JOHNSON,
CHARLES W. MATHIS,
DANIEL KNAUER,
JOHN DONNELLY,
EDWIN A PARKER,
Street Committee.

J. W. HACKNEY, City Engineer. 1-1t

29,300 FT. CURBING.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposals for Curbing Atlantic Avenue," with the name of the person or corporation making the bid, will be received by the City Clerk, at Council Chambers, in the City Hall, between the hours of 8 and 8.30 o'clock, p. m., Monday, January 16, 1905, during a session of City Council.

The City Engineer's Estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and setting of:

29,300 lin. ft. of straight granite curbing, including excavation and concrete at joints.
3,563 lin. ft. of curved granite curbing, 10 ft. radius and 6 ins. in width, including excavation and concrete at joints.
31 lin. ft. of curved granite curbing, 10 ft. radius and 8 ins. in width, including excavation and concrete at joints.
173 lin. ft. of curved granite curbing, 2 ft. radius, including excavation and concrete base.
150 lin. ft. of granite curbing, reset, including excavation and concrete at joints.
49 cast-iron inlet frames and grates, 2 ft. long.
144 cast-iron inlet frames and grates, 3 ft. long.
180 cu. yds. of brick masonry.
25 cu. yds. of concrete (not included in other items).
7,400 ft. B. M. of long leaf yellow pine lumber, merchantable inspection (not included in other items).
5,000 ft. B. M. of Virginia pine or short leaf yellow pine lumber, square-edged inspection (not included in other items).
104 lin. ft. of 10-in. vitrified clay pipe, including board foundation and cradle blocks.
100 lin. ft. of 10-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
233 lin. ft. of 12-in. vitrified clay pipe, including board foundation and cradle blocks.
54 lin. ft. of 12-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
813 lin. ft. of 14-in. vitrified clay pipe, including board foundation and cradle blocks.
1,110 lin. ft. of 14-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
813 lin. ft. of 18-in. vitrified clay pipe, including board foundation and cradle blocks.
813 lin. ft. of 18-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
504 lin. ft. of 14-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
360 lin. ft. of 18-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
8 14-in. cast-iron tees, 8-in. outlets, with plugs, including board foundation, cradle blocks and concrete.
5 18-in. cast-iron tees, 8-in. outlets, with plugs, including board foundation, cradle blocks and concrete.
2,114 cu. yds. of excavation (not included in other items) to specified lines, above Elevation + 6.00 ft.—City Datum.
1,195 cu. yds. of excavation (not included in other items) to specified lines, above Elevation + 6.00 ft.—City Datum.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum of Five Thousand Dollars ($5,000).

Surety Company Bond will be required in the sum of Ten Thousand Dollars ($10,000).

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

EDWARD S. JOHNSON,
CHARLES W. MATHIS,
DANIEL KNAUER,
JOHN DONNELLY,
EDWIN A PARKER,
Street Committee.

J. W. HACKNEY, City Engineer. 1-1t

93,000 YDS. ASPHALT PAVING.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposals for Paving Atlantic Avenue," with the name of the person or corporation making the bid, will be received by the City Clerk, at Council Chambers, in the City Hall, between the hours of 8 and 8.30 o'clock, p. m., Monday, January 16, 1905, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and laying of:

93,000 sq. yds. of Asphalt Pavement, including concrete foundation.
12,000 sq. yds. of Vitrified Fire Clay Block Pavement, including concrete foundation.
90 cu. yds. of extra concrete.
47,000 cu. yds. of excavation.
2,900 lin. ft. of Bluestone heading stones.

Samples of Paving Materials and Certificates, in conformity with the requirements fully set forth in the Notice to Contractors, must be deposited with the City Engineer at his office before 5 o'clock, p. m., Wednesday, January 11, 1905.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of John A. Jeffries, City Treasurer, for the sum [illegible] Thousand Dollars ($10,000).

Surety Company Bond [illegible] required in the sum of one-half of the [illegible] ct price for the entire work, based u[illegible] e estimated quantities herein given.

The City Council reserv[illegible] right to reject any or all bids if it sha[illegible] m it for the public interest so to do.

Blank forms of Proposal [illegible] ice to Contractors, Contract and S[illegible] ations, and further information, if req[illegible] can be obtained upon application a[illegible] office of the City Engineer, Room 622, [illegible] Building.

EDWARD S. [illegible]NSON,
CHARLES W [illegible]THIS,
DANIEL KN[illegible],
JOHN DONN[illegible],
EDWIN A PA[illegible]ER,
Str[illegible] Committee.

J. W. HACKNEY, City En[illegible]er. 1-1t

AIR BRAKE EQUIPMENT.—Isthmian Canal Commission, Washington, D. C.—Sealed proposals, in triplicate, will be received at the office of the Isthmian Canal Commission until 3 o'clock, p. m., on the 18th day of January, 1905, at which time they will be opened in public, for furnishing "Air Brake Equipment." Proposals should be addressed in sealed envelopes to "J. G. WALKER, Chairman Isthmian Canal Commission, Washington, D. C." Proposal blanks and specifications may be obtained at the office of the Isthmian Canal Commission, Washington, D. C. 1-2t

SITUATIONS OPEN

WANTED, DREDGER CAPTAIN; must be experienced in operation and maintenance of centrifugal suction dredges in salt water; a good opening for a thoroughly reliable man, capable of assuming complete charge of a new dredge, and of producing good results. J. G. WHITE & COMPANY, 43 Exchange Place, New York. 1-1t

WANTED.—STRUCTURAL DRAFTSMAN for responsible firm in Western Pennsylvania; must have experience in designing and figuring stresses; state experience, salary, and earliest date for reporting. Address "F. A. 1," Engineering News, New York. 1-1t

HARBOR WORK CONSTRUCTION.—Wanted, a high-grade man as general superintendent of construction; must be experienced and qualified to take general supervision of harbor contracts, covering dredging, concrete wall construction, piling, dock work, quarrying, building stone jetty, fascine work, etc. A good opening for a thoroughly experienced man, capable of producing satisfactory results. J. G. WHITE & COMPANY, 43 Exchange Place, New York. 1-4t

WANTED.—A templet maker for bridge shop; wages $2.50 per day. Address MEMPHIS BRIDGE CO., Memphis, Tenn. 1-1t

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T. J. SHEA, General Contractor,
Sewers, Water Works, Street Paving, Etc.

Elizabeth, N. J., Apr. 26, 1903.

ENGINEERING NEWS COMPANY,
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